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REDACTED VERSION

French Ltd. Project



FLTG, Inc.

Crosby, Texas

MONTHLY PROGRESS REPORT



Submitted to:

U.S. Environmental Protection Agency - Region 6
and
Texas Natural Resource Conservation Commission

May, 1995

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FLTG, Incorporated

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Appendix A - None

Appendix B - None

Appendix C - Analytical Results -

Samples Dated May, 1995

<u>Project I.D.</u>	<u>Date Received</u>	<u>Project I.D.</u>	<u>Date Received</u>
M01D0055	05/01/95	M04B0032	05/22/95
M03A0324	05/01/95	M04B0033	05/22/95
M03A0325	05/05/95	M04B0034	05/23/95
M0310326	05/05/95	M04C0025	05/23/95
M03A0327	05/09/95	M06C0027	05/23/95
M03A0328	05/12/95	M03A0332	05/25/95
S14B0004	05/12/95	M03A0333	05/26/95
M03A0329	05/16/95	M03A0334	05/31/95
M03A0330	05/18/95	M04B0035	05/31/95
M01D0056	05/22/95	M04B0036	05/31/95
M03A0331	05/22/95	S17A0008	05/31/95



MONTHLY PROGRESS REPORT
Introduction

French Ltd. Project
FLTG, Incorporated

1.0 INTRODUCTION

This report covers the activities of FLTG, Inc. and the French Limited Project for May, 1995. FLTG, Inc. manages the project for the French Limited Task Group of Potentially Responsible Parties.

During May, 1995, the project team focused on the following activities and issues:

- Health, Safety, and Quality.
- Safety awareness.
- Contractor safety.
- Safety on multiple job assignments.
- HAZOP of daily work assignments.
- Detecting and correcting work place hazards.
- Vegetation evaluation in Cell E.
- Operation and maintenance of the aquifer remediation system.
- In-situ aquifer bioremediation.
- Water treatment plant operation and maintenance.
- Operation of the data base management system.
- Wetlands project construction.
- This report includes:
 - A summary of May activities, issues, and progress.

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Introduction

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- Lagoon area activities.
- Groundwater and Subsoil Remediation activities, issues, and progress.
- Groundwater Treatment Plant activities and issues.
- Ambient Air Management status.
- QA/QC status and data.
- Site management activities and issues.
- Wetlands restoration activities, issues, and progress.

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MONTHLY PROGRESS REPORT
Summary

French Ltd. Project
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2.0 SUMMARY

2.1 Summary of Activities and Progress

2.1.1 Health and Safety

Emphasized the safety issues associated with multiple job assignments and limited support personnel; emphasized the need to be flexible and responsive to personal limitations.

No personal injury or equipment damage incidents.

All site workers earned the May safety bonus.

Conducted safety meetings and job inspections at the start of each shift; reviewed safety issues before starting all jobs.

All employees and contractors attended daily safety meetings.

All employees and regular contractors completed the HAZMAT annual refresher course.

Conducted daily mini-HAZOP of all specific jobs.

Supervision made 192 specific on-the-job safety contacts.

All employees and regular contractors completed First Aid and CPR training.

Emphasized the causes, symptoms, and treatment of heat stress.

Inspected and certified all fire extinguishers.

Emphasized the hazards and precautions associated with working around moving equipment.

Conducted 22 specific health and safety inspections.

Logged all safety issues each shift; less than 24-hour response to all safety issues.

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The daily raffle ticket safety awareness program has been effective in maintaining daily safety awareness among all site personnel and contractors.

Conducted personnel exposure monitoring, and all results were within acceptable levels. The most recent results are in Table 2-1.

2.1.2 Quality/QAQC/Data Base Management

The total quality process was used. The status of the goals is shown on Table 2-2.

Adjusted the goals to reflect decreased manpower requirements.

Raw data is being validated as per the plan.

The data base management system operated with no problems or delays.

There were no data or reports rejected due to errors.

American Analytical continued to provide quality data on time.

2.1.3 Lagoon

Maintained a high level of biological activity in Cell D; OUR and HMB were high. Added O₂ to Cell D using a downdraft aerator for five days.

Continued periodic subsurface injection of Cell D water in Cell E; there were no problems or issues, and adequate gradient control was maintained.

Continued evaluation of various tree and bush species for passive dewatering of the subsurface inside the floodwall.

Tested floodwall gate closure.

2.1.4 Ambient Air Management

Ambient air quality was manually checked daily with portable analyzers, and no response action was required.

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Air quality was continuously monitored in all potential exposure areas and on all special jobs.

Time-integrated samples were collected in three work areas, and the results indicated no exposure; the data is shown in Table 2-1.

2.1.5 Aquifer Remediation

Monitored status of DNAPL plumes.

Continued routine S1 oxygen injection.

Continued INT oxygen and nutrient injection.

Continued to evaluate ways to increase INT remediation rates in the INT-11 wall area and the SW area.

Evaluated various ways to decrease back-pressure on critical INT production wells.

Flows continued to increase in the sand fracture areas.

Operated vacuum-enhanced pumping systems for INT wells; vacuum enhanced two of the three new INT pumping wells.

Issued weekly well status and performance reports.

Inspected and adjusted all wells each day.

Continued daily maintenance of recovery and injection wells.

Completed monthly well measurements and sampling; TOC levels continue to decrease; DO levels continue to increase.

Maintained O₂ content of injection water at about 40-45 ppm.

Shut off 4 more production or injection wells in areas that have reached aquifer remediation shut-off criteria; monthly sampling indicated no rebound and indicated

**MONTHLY PROGRESS REPORT
Summary****French Ltd. Project
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favorable gradient control; monthly sampling indicated a shift in the INT-11 and in the SW target areas.

2.1.6 Groundwater Treatment

The treated water did not require carbon treatment to maintain effluent criteria.

There was no downtime.

Adjusted the treated water sampling frequency to match the reduced plant treatment volume.

The water treatment plant effluent data is shown in Table 2-3. All effluent samples met criteria.

TOC input to T-101 continued to decrease.

The process operators collected all the process water and ground water samples.

2.1.7 Wetlands Restoration

Dewatering was required after every rainfall.

Continued final grading and topsoil replacement in selected areas.

Completed excavation of flow channels; relatively dry weather allowed good progress on site excavation.

Completed construction of the bridges.

Reviewed status, progress, and issues with the TNRCC and other agencies.

Continued selective planting.

Excavation activities uncovered a volume of affected soils in the SE corner of the project; the soils, in place, contained significant TPH and reactive sulfide; a remedial response plan was developed and sent to the City of Baytown.

**MONTHLY PROGRESS REPORT
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Used the on-site laboratory to process all the operational control samples.

Reviewed site progress and issues in detail with EPA and TNRCC on a regular basis.

Validated all analytical data as per the QAQC plan.

Reviewed project status and issues each day to ensure focus on critical issues - safety, quality, cost, INT zone progress, and wetlands construction.

Issued weekly cost, schedule, and maintenance reports.

Reviewed progress on issues and action plans each week.

Reduced aquifer remediation operational and maintenance requirements.

Reduced technical support MH's.

Reduced site security requirements.

Reduced project manpower by 40%.

Reviewed agency oversight cost invoice for 1992 and 1993.

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TABLE 2-1

Ambient Air Management
Time Integrated Exposure Data

Compound	PEL 8 hour PPM	1 3-May-95 Wells (S.R.)		2 3-May-95 (sample data not usable)		3 3-May-95 Security (R.L.)	
		% of PEL	PPM	% of PEL	PPM	% of PEL	PPM
Chloromethane	50	0.004	0.002	0.000	0.000	0.003	0.001
Bromomethane	5	0.000	0.000	0.000	0.000	0.000	0.000
Vinyl chloride	1	0.000	0.000	0.000	0.000	0.000	0.000
Chloroethane	1000	0.000	0.000	0.000	0.000	0.000	0.000
Dichloromethane	50	0.001	0.001	0.000	0.000	0.000	0.000
Acetone	750	0.000	0.001	0.000	0.000	0.001	0.005
Carbon disulfide	10	0.001	0.000	0.000	0.000	0.000	0.000
1,1-Dichloroethene	5	0.000	0.000	0.000	0.000	0.000	0.000
1,1-Dichloroethane	100	0.000	0.000	0.000	0.000	0.000	0.000
trans-1,2-Dichloroethene	200	0.001	0.001	0.000	0.000	0.001	0.001
Chloroform	10	0.001	0.000	0.000	0.000	0.008	0.001
1,2-Dichloroethane	10	0.000	0.000	0.000	0.000	0.001	0.000
2-Butanone	200	0.000	0.000	0.000	0.000	0.001	0.001
1,1,1-Trichloroethane	350	0.000	0.000	0.000	0.000	0.000	0.000
Carbon Tetrachloride	5	0.000	0.000	0.000	0.000	0.003	0.000
Vinyl acetate	10	0.000	0.000	0.000	0.000	0.001	0.000
Bromodichloromethane			0.000		0.000		0.000
1,2-Dichloropropane	75	0.000	0.000	0.000	0.000	0.000	0.000
cis-1,3-Dichloropropene	1	0.000	0.000	0.000	0.000	0.000	0.000
Trichloroethene	50	0.000	0.000	0.000	0.000	0.000	0.000
Dibromochloromethane			0.000		0.000		0.000
1,1,2-Trichloroethane	10	0.000	0.000	0.000	0.000	0.000	0.000
Benzene	1	0.012	0.000	0.000	0.000	0.057	0.001
trans-1,3-Dichloropropene	1	0.000	0.000	0.000	0.000	0.000	0.000
2-Chloroethylvinyl ether			0.000		0.000		0.000
Bromoform	0.5	0.000	0.000	0.000	0.000	0.000	0.000
4-Methyl-2-pentanone	50	0.000	0.000	0.000	0.000	0.000	0.000
2-Hexanone	5	0.000	0.000	0.000	0.000	0.000	0.000
Tetrachloroethene	50	0.000	0.000	0.000	0.000	0.000	0.000
1,1,2,2-Tetrachloroethene	1	0.000	0.000	0.000	0.000	0.000	0.000
Toluene	100	0.000	0.000	0.000	0.000	0.000	0.000
Chlorobenzene	10	0.000	0.000	0.000	0.000	0.000	0.000
Ethylbenzene	100	0.000	0.000	0.000	0.000	0.000	0.000
Styrene	50	0.000	0.000	0.000	0.000	0.000	0.000
Xylene (total)	100	0.000	0.000	0.000	0.000	0.000	0.000
Hexane			0.003		0.000		0.053

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TABLE 2-2

Project Quality

Status as of

05/31/95Goals

Yes	1)	No OSHA recordable injuries.
Attention	2)	100% compliance with all safety rules and procedures.
Yes	3)	No citations for violations of applicable, relevant and appropriate regulations.
Yes	4)	100% attendance (including subcontractors) at daily safety meetings.
Attention	5)	Less than 24-hour response time on health and safety issues.
Yes	6)	100% sign-in and security clearance.
Yes	7)	No invalidation of reported data due to QA/QC issues.
	8)	Spend less than:
		<u>MH/Month</u>
Yes		• Direct hire 2,000
Yes		• FLTG management 600
Yes/Attention		• Technical support (3 people) 500
Yes		• Maintenance support 80
Yes	9)	Pump at least 90 gpm; inject at least 60 gpm.
Yes	10)	Remediate shallow alluvial zone aquifer in 60 months.
Yes	11)	Hold analytical cost to less than \$15,000 per month (1994 only).
Yes	12)	No unscheduled overtime (per day or per week).
Yes	13)	No agency contacts which require 3rd party resolution.
Yes	14)	Documented training of site personnel for all work assignments.
Yes	15)	Monthly audit of actual performance versus goals.

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TABLE 2-3
Treated Water Results Summary

Collected	Set No.	pH		TSS		TOC		O&G		Benzene		Chlor HC's		Total PCBs		Naphthalene	
		(6-9)		5 PPM		55 PPM		15 PPM		150 PPB		500 PPB		0.65 PPB		300 PPB	
		Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg
2-Jan-95	M03A0298	7.78		4.		12.9		2.5		5.		275.		.16		5.	
5-Jan-95	M03A0287	7.81		5.		19.		2.5		6.		249.		.16		5.	
9-Jan-95	M03A0298	7.8		7.		9.8		2.5		2.5		124.		.16		5.	
12-Jan-95	M03A0299	7.77		2.		9.8		2.5		2.5		200.		.16		5.	
16-Jan-95	M03A0300	7.61		4.		18.3		2.5		6.		393.		.16		5.	
19-Jan-95	M03A0301	7.44		2.		19.8		2.5		5.		454.		.16		5.	
23-Jan-95	M03A0302	7.82		9.		35.5		2.5		6.		192.		.16		5.	
28-Jan-95	M03A0303	7.66		.5		20.5		2.5		6.		234.		.16		5.	
30-Jan-95	M03A0304	7.15	7.6	4.	4.2	44.3	21.1	2.5	2.5	25.	7.1	2326.	494	.16	.16	5.	5.
2-Feb-95	M03A0305	7.28	7.6	.5	3.8	11.7	21.	2.5	2.5	6.	7.2	613.	532	.16	.16	5.	5.
6-Feb-95	M03A0306	7.55	7.6	1.	3.8	11.7	20.2	2.5	2.5	5.	7.1	411.	550	.16	.16	5.	5.
9-Feb-95	M03A0307	7.52	7.5	5.	3.1	8.8	20.	2.5	2.5	6.	7.4	226.	561	.16	.16	5.	5.
13-Feb-95	M03A0308	7.5	7.5	22.	5.3	9.7	20.	2.5	2.5	5.	7.7	349.	578	.16	.16	5.	5.
16-Feb-95	M03A0309	7.33	7.5	.5	4.9	5.2	18.6	2.5	2.5	6.	7.6	276.	565	.16	.16	5.	5.
20-Feb-95	M03A0310	7.37	7.5	5.	5.4	5.8	17.	2.5	2.5	4.	7.4	193.	536	.16	.16	5.	5.
23-Feb-95	M03A0311	7.29	7.4	1.	4.5	1.	13.2	2.5	2.5	2.5	7.1	60.	521	.16	.16	5.	5.
27-Feb-95	M03A0312	7.46	7.4	3.	4.8	9.5	12.	2.5	2.5	2.5	6.7	164.	513	.16	.16	5.	5.
2-Mar-95	M03A0313	7.47	7.4	.5	4.4	8.5	8.	2.5	2.5	2.5	4.2	145.	271	.16	.16	5.	5.
6-Mar-95	M03A0314	7.49	7.4	1.	4.4	8.1	7.6	2.5	2.5	2.5	3.8	128.	217	.16	.16	5.	5.
9-Mar-95	M03A0315	7.38	7.4	1.	4.4	8.	7.2	2.5	2.5	2.5	3.5	193.	193	.16	.16	5.	5.
13-Mar-95	M03A0316	7.64	7.4	5.	4.4	7.2	7.	2.5	2.5	2.5	3.22	111.	180	.16	.16	5.	5.
16-Mar-95	M03A0317	7.55	7.4	.5	2.1	6.	6.6	2.5	2.5	2.5	2.9	150.	158	.16	.16	5.	5.
20-Mar-95	M03A0318	7.41	7.5	.5	2.1	6.6	6.7	2.5	2.5	2.5	2.7	97.	138	.16	.16	5.	5.
23-Mar-95	M03A0319	7.45	7.5	1.	1.5	6.	6.8	2.5	2.5	2.5	2.5	185.	137.	.16	.16	5.	5.
27-Mar-95	M03A0320	7.83	7.5	3.	1.7	12.2	8.	2.5	2.5	6.	2.9	325.	166	.16	.16	5.	5.
30-Mar-95	M03A0321	7.47	7.5	7.	2.2	11.9	8.3	2.5	2.5	6.	3.3	342.	186	.16	.16	5.	5.
3-Apr-95	M03A0322	7.42	7.5	1.	2.2	11.7	8.6	2.5	2.5	6.	3.7	289.	200	.16	.16	5.	5.
6-Apr-95	M03A0323	7.45	7.5	2.	2.3	12.2	9.1	2.5	2.5	6.	4.1	239.	212	.16	.16	5.	5.
10-Apr-95	M03A0324	7.38	7.5	2.	2.4	11.1	9.4	2.5	2.5	6.	4.4	230.	216	.16	.16	5.	5.
13-Apr-95	M03A0325	7.62	7.5	3.	2.2	12.9	10.1	2.5	2.5	6.	4.8	364.	245	.16	.16	5.	5.
17-Apr-95	M03A0326	7.59	7.5	11.	3.4	12.9	10.8	2.5	2.5	6.	5.2	247.	255	.16	.16	5.	5.
20-Apr-95	M03A0327	7.75	7.6	1.	3.4	12.1	11.4	2.5	2.5	6.	5.6	226.	270	.16	.16	5.	5.
24-Apr-95	M03A0328	7.67	7.6	13.	4.8	13.	12.2	2.5	2.5	6.	6.	269.	279.	.16	.16	5.	5.
27-Apr-95	M03A0329	7.51	7.5	1.	4.6	12.2	12.2	2.5	2.5	2.5	6.6	236.	269	.16	.16	5.	5.
1-May-95	M03A0330	7.63	7.6	1.	3.9	12.1	12.2	2.5	2.5	2.5	5.2	177.	251	.16	.16	5.	5.
4-May-95	M03A0331	7.91	7.61	4.	4.2	12.5	12.3	2.5	2.5	2.5	4.8	222.	246	.16	.16	5.	5.
8-May-95	M03A0332	7.95	7.67	4.	4.4	11.3	12.2	2.5	2.5	2.5	4.4	228.	244	.16	.16	5.	5.
11-May-95	M03A0334	7.97	7.73	4.	4.7	10.9	12.21	2.5	2.5	2.5	4.1	235.	245	.16	.16	5.	5.
15-May-95	M03A0333	7.87	7.76	8.	5.2	13.7	12.3	2.5	2.5	2.5	3.7	209.	228	.16	.16	5.	5.
18-May-95	M03A0335	7.73	7.78	6.	4.7	11.	12.1	2.5	2.5	6.	3.7	374.	242	.16	.16	5.	5.
22-May-95	M03A0336	7.88	7.79	1.	4.7	31.	14.2	2.5	2.5	6.	3.7	274.	247	.16	.16	5.	5.
29-May-95	M03A0337	7.76	7.8	1.	3.3	45.	17.7	2.5	2.5	6.	3.7	227.	242	.16	.16	5.	5.
5-Jun-95	M03A0338	7.53															

Chlorinated hydrocarbons value is the sum of detected concentrations of 21 volatile chlorinated hydrocarbons on target compound list.

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TABLE 2-3 (Continued)
Treated Water Results Summary

Collected	Set No.	As		Bq		Cd		Cr		Cu		Pb		Mn		Hg		Ni		Se		Ag		Zn		
		150 PPB	Daily R-Avg	1000 PPB	Daily R-Avg	50 PPB	Daily R-Avg	500 PPB	Daily R-Avg	15 PPB	Daily R-Avg	66 PPB	Daily R-Avg	300 PPB	Daily R-Avg	1 PPB	Daily R-Avg	148 PPB	Daily R-Avg	20 PPB	Daily R-Avg	5 PPB	Daily R-Avg	182 PPB	Daily R-Avg	
2-Jan-95	M03A0296	9.9		172.		.1		2.1		1.6		.5		18.		.1		1.		1.2		.2		7.		
5-Jan-95	M03A0297	14.		151.		.1		2.		2.		.5		57.		.1		6.		1.2		.2		20.		
9-Jan-95	M03A0298	12.		171.		.1		.9		3.		.5		23.		.1		4.		1.3		.2		7.		
12-Jan-95	M03A0299	16.		143.		.1		.2		2.		.5		2.		.1		2.		1.3		.2		3.		
16-Jan-95	M03A0300	12.		146.		.1		.6		3.		.5		1.		.1		3.		1.3		.2		6.		
19-Jan-95	M03A0301	18.		135.		.1		.4		2.		.5		2.		.1		4.		1.3		.2		18.		
23-Jan-95	M03A0302	12.		140.		.1		.2		2.		.5		3.		.1		6.		1.3		.2		18.		
26-Jan-95	M03A0303	16.		148.		.1		.2		2.		.5		2.		.1		2.		1.3		.2		12.		
30-Jan-95	M03A0304	9.		238.		.1		2.		2.		.5		43.		.1		3.		1.3		.2		5.		
2-Feb-95	M03A0305	10.	13.2	182.	183	.1	.1	1.	.7	2.	2.2	.5	.5	15.	16.4	.1	.1	4.	3.8	1.3	1.2	.2	.2	8.	10.6	
6-Feb-95	M03A0306	11.	12.9	188.	167	.1	.1	.2	.4	1.	2.1	.5	.5	4.	10.6	.1	.1	2.	3.3	1.3	1.3	.2	.2	5.	8.9	
9-Feb-95	M03A0307	16.	13.3	195.	169	.1	.1	.2	.3	4.	2.2	.5	.5	6.	8.7	.1	.1	6.	3.6	1.3	1.3	.2	.2	11.	9.3	
13-Feb-95	M03A0308	13.	13.	184.	174	.1	.1	2.	.5	1.	2.1	.5	.5	15.	10.1	.1	.1	5.	3.9	1.3	1.3	.2	.2	8.	9.9	
16-Feb-95	M03A0309	12.	13.	184.	178	.1	.1	.2	.5	1.	1.9	.5	.5	6.	10.7	.1	.1	6.	4.2	1.3	1.3	.2	.2	7.	10.	
20-Feb-95	M03A0310	14.	12.6	191.	184	.1	.1	.2	.7	2.	1.9	.5	.5	27.	13.4	.1	.1	8.	4.7	1.3	1.3	.3	.2	8.	8.7	
23-Feb-95	M03A0311	13.	12.7	165.	187	.1	.1	.1	.8	2.	1.9	.5	.5	3.	13.4	.1	.1	8.	4.9	1.3	1.3	.2	.2	9.	7.9	
27-Feb-95	M03A0312	22.	13.3	144.	187	.1	.1	4.5	1.2	3.	2.	.5	.5	3.	13.6	.1	.1	12.	6.	1.3	1.3	.5	.2	2.5	6.8	
2-Mar-95	M03A0313	23.	14.9	133.	175	.1	.1	.2	1.4	1.	1.9	.5	.5	15.	10.4	.1	.1	8.	6.6	1.3	1.3	.5	.2	6.	6.9	
6-Mar-95	M03A0314	17.	15.7	130.	168	.1	.2	1.	1.4	3.	2.	2.2	.7	3.	9.1	.1	.1	2.5	6.4	.5	1.2	.8	.3	8.	6.9	
9-Mar-95	M03A0315	24.	17.1	111.	160	.1	.2	.2	1.4	.8	2.	.5	.7	4.	9.1	.1	.1	4.	6.6	1.3	1.2	.2	.3	6.	7.1	
13-Mar-95	M03A0316	17.	17.2	121.	151	.1	.2	.2	1.4	1.	1.6	.5	.7	41.	13.	.1	.1	3.	6.3	1.3	1.2	.2	.3	5.	6.4	
16-Mar-95	M03A0317	23.	18.3	114.	144	.1	.2	.3	1.3	3.	3.	1.9	.5	.7	2.	11.6	.1	.1	3.	6.1	1.3	1.2	.2	.3	11.	6.7
20-Mar-95	M03A0318	19.	19.	112.	136	.1	.2	.2	1.3	3.	2.1	.5	.7	2.	11.1	.1	.1	2.	5.8	1.3	1.2	.2	.3	3.	6.3	
23-Mar-95	M03A0319	19.	19.6	119.	128	.1	.2	.2	1.	2.	2.1	.5	.7	2.	8.3	.1	.1	3.	5.1	1.3	1.2	.2	.3	4.	6.1	
27-Mar-95	M03A0320	14.	19.7	130.	124	.1	.2	3.	1.3	2.	2.1	.5	.7	22.	10.4	.1	.1	5.	4.7	1.3	1.2	.2	.3	40.	9.5	
30-Mar-95	M03A0321	19.	19.3	132.	122	.1	.2	2.	1.	2.	2.	.5	.7	25.	12.9	.1	.1	6.	4.1	1.3	1.2	.2	.3	8.	10.1	
3-Apr-95	M03A0322	17.	18.7	127.	122	.1	.2	.2	.8	2.	2.1	.5	.7	9.	12.2	.1	.1	1.	3.3	1.3	1.2	.2	.2	15.	11.1	
6-Apr-95	M03A0323	23.	19.3	102.	119	.1	.1	.2	.7	1.	1.8	.5	.5	4.	12.3	.1	.1	3.	3.1	1.3	1.3	.2	.2	4.	10.7	
10-Apr-95	M03A0324	12.	18.	157.	124	.1	.1	.2	.9	2.	2.	.5	.7	32.	15.4	.1	.1	4.	3.1	1.3	1.3	.2	.2	8.	10.9	
13-Apr-95	M03A0325	44.	21.	107.	122	.1	.1	1.	1.	2.	2.1	.5	.7	11.	12.1	.1	.1	6.	3.4	1.3	1.3	.2	.2	3.	10.7	
17-Apr-95	M03A0326	26.	21.3	171.	129	.1	.1	14.	2.5	2.	2.	1.	.7	108.	23.8	.1	.1	14.	4.7	1.3	1.3	.2	.2	17.	11.3	
20-Apr-95	M03A0327	24.	22.	129.	130	.7	.2	7.	3.3	9.	2.7	2.	.9	43.	28.4	.1	.1	10.	5.6	1.3	1.3	.2	.2	34.	14.8	
24-Apr-95	M03A0328	21.	22	115.	130	.1	.2	7.	4.	1.	2.6	.5	.9	38.	32.4	.1	.1	6.	5.9	1.3	1.3	.2	.2	4.	14.8	
27-Apr-95	M03A0329	24.	23.3	110.	128	.1	.2	2.	3.9	2.	2.6	.5	.9	12.	31.3	.1	.1	7.	6.1	1.3	1.3	.2	.2	9.	11.3	
1-May-95	M03A0330	16.8	23.1	106.	125	1.1	.3	.7	3.8	.7	2.4	.5	.9	6.8	29.3	.1	.1	8.5	6.4	.8	1.2	.5	.2	.2	10.5	
4-May-95	M03A0331	21.	23.5	149.	127	1.1	.4	5.9	4.4	1.	2.3	.5	.9	70.4	36.1	.1	.1	7.6	7.1	.8	1.2	.5	.2	16.2	10.6	
8-May-95	M03A0332	16.	22.8	128.	130	.1	.4	1.	4.5	1.6	2.4	.5	.9	6.	36.4	.1	.1	5.	7.6	1.3	1.2	.2	.2	4.	10.6	
11-May-95	M03A0334	17.	23.3	159.	130	.1	.4	3.	4.8	.9	2.2	.5	.7	22.	35.2	.1	.1	6.	7.8	1.3	1.2	.2	.2	5.	10.3	
15-May-95	M03A0333	17.	20.3	141.	134	.1	.4	2.	4.7	1.	2.1	.5	.7	21.	36.4	.1	.1	5.	7.7	1.3	1.2	.2	.2	4.	10.4	
18-May-95	M03A0335	18.	19.4	122.	128	.1	.4	.2	3.2	.3	1.9	.5	.7	4.	24.8	.1	.1	3.	6.5	1.3	1.2	.2	.2	1.5	8.7	
22-May-95	M03A0336	14.	18.3	190.	129	.1	.3	1.	2.6	.5	1.	.5	.5	9.	21.	.1	.1	5.	5.9	1.3	1.2	.2	.2	7.	5.7	
29-May-95	M03A0337	18.	17.8	178.	135	.1	.3	2.	2.	.3	.9	.5	.5	27.	19.8	.1	.1	1.	5.3	2.8	1.3	.2	.2	4.	5.7	

Metals values in PPB.

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MONTHLY PROGRESS REPORT
Summary

French Ltd. Project
FLTG, Incorporated

2.2 Problem Areas and Recommended Solutions

<u>Problem</u>	<u>Solution</u>
Maintain high level of safety awareness.	Daily raffle ticket program. Daily safety meetings. Safety meeting participation. Training. Regular HAZOP's.
On-the-Job safety attention.	Contact all employees at least twice per day on safety issues. Review job details as work proceeds. Stop and challenge approach.
Hazard detection and response.	Safety inspections. HAZOP's on all jobs. Constant awareness.
Low flow in some INT pumping and injection wells.	Vacuum enhanced pumping. Increase injection pressure in some areas. Decrease back-pressure on pumping wells. Add wells in target areas.
Slow progress on wetlands excavation.	Adjust work schedules when having wet weather; flexible field work plan.
Low flushing rate in INT zone just SW of INT-11 wall.	Install two pumping wells and two injection wells; vacuum enhance the new pumping wells.
Affected soil in excavation at wetlands project.	Secure the area; sample and analyze; re-route the excavation; review with City of Baytown officials; develop response action plan.

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MONTHLY PROGRESS REPORT
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French Ltd. Project
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2.3 Problems Resolved

None.

2.4 Deliverables Submitted

April, 1995 monthly report

2.5 Upcoming/Ongoing Events and Activities

Daily safety meetings and inspections.

Daily safety awareness program.

Emphasis on multiple work assignments.

Emphasis on hazard identification and response.

Attention to safety details.

Respond to HAZOP audits.

Increase nutrient and oxygen circulation in specific INT areas.

Daily well pump checks and maintenance.

Aquifer compliance sampling in select areas and zones.

Operate S1 and INT wells for expedited in-situ bioremediation.

Ship surplus equipment.

Injection of Cell D water.

Evaluate vegetation in Lagoon area.

Operate Data Base Management System.

MONTHLY PROGRESS REPORT
Summary

French Ltd. Project
FLTG, Incorporated

Total Quality process.

Minimize carbon usage in Water Treatment Plant.

Develop lagoon closure plan.

Submit MCC-1 area remediation report.

Continue wetlands restoration project.

2.6 Key Staffing Changes

Reduce project operating personnel by four.

2.7 Percent Complete

Research & Development	- 98%
Facilities	- 100%
Slough	- 100%
Subsoil Investigation	-100%
Floodwall	-100%
Lagoon Remediation	-100%
Groundwater	- 83%
Lagoon Dewatering/Fixation	- 100%
Water Treatment	- 80%
Wetlands	- 90%
Demobilization	- 66%
Monitoring	- 62%

2.8 Schedule

All deliverables are on schedule.

Complete wetlands construction by July 1, 1995.

Complete active aquifer remediation by January 1, 1996.

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MONTHLY PROGRESS REPORT
Summary

French Ltd. Project
FLTG, Incorporated

2.9 Operations and Monitoring Data

The operations and monitoring data are submitted as parts of Sections 3.0, 4.0, 5.0, and 6.0 of this report, and the supporting data are stored in secure storage at the French project office.

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French Ltd. Project
FLTG, Incorporated

2.10 Credits Accrued/Applied

Status of Credits

	Accrued this period	Accrued to date	Applied this period	Applied to date	Running total
December 1990	34	34	0	0	34
December 1991	0	100	0	0	100
December 1992	0	101	0	2	99
December 1993	0	104	0	4	100
January 1994	0	104	0	4	100
February 1994	0	104	0	4	100
March 1994	0	104	0	4	100
April 1994	0	104	0	4	100
May 1994	0	104	0	4	100
June 1994	0	104	0	4	100
July 1994	5	109	0	4	105
August 1994	0	109	0	4	105
September 1994	0	109	0	4	105
October 1994	0	109	0	4	105
November 1994	0	109	0	4	105
December 1994	0	109	0	4	105
January 1995	0	109	0	4	105
February 1995	0	109	0	4	105
March 1995	0	109	0	4	105
April 1995	0	109	0	4	105
May 1995	0	109	0	4	105

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2.11 Community Relations

Maintained 24-hour, call-in Hot Line.

Conducted four site tours for interested parties.

Contacted nearby local residents with update on site activities.

Contacted several Riverdale residents with well sampling results.

Reviewed Barrett Station community development program.

Supported Crosby Fair and Rodeo.



MONTHLY PROGRESS REPORT
Lagoon Bioremediation

French Ltd. Project
FLTG, Incorporated

3.0 LAGOON

3.1 Summary of Activities

Evaluating test plots of various plants in Cell E.

Injected about 138,000 gallons of "clean" Cell D water in Cell E subsurface.

Operated aerator in Cell D to expedite biomass degradation.

Evaluating various options for gradient control inside the lagoon.

Continued dismantling and disposal of scrap piping.

3.2 Problems and Response Action

<u>Problem</u>	<u>Recommended Solution</u>
Ground cover growth slow in Cell E.	Water frequently. Evaluate different grass blends and soil nutrients.
Poor tree growth in Cell E.	Evaluate different types of trees. Design an irrigation system.

3.3 Problems Resolved

None.

3.4 Deliverables Submitted

None.

MONTHLY PROGRESS REPORT
Lagoon Bioremediation

French Ltd. Project
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3.5 Upcoming Events and Activities

Maintain pH, DO, OUR, and nutrient levels in Cell D.

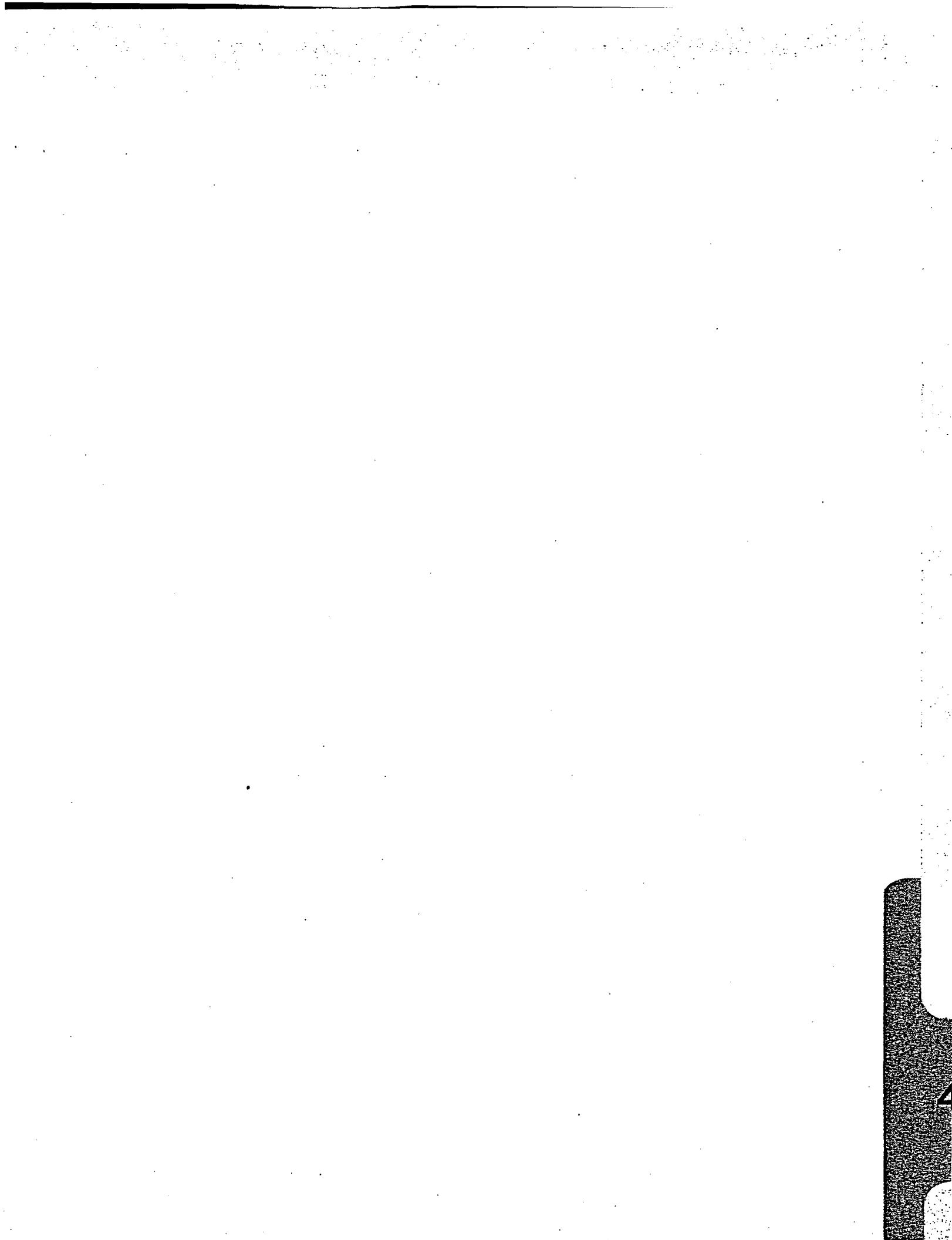
Operate aerator/mixer in Cell D as required.

Inject Cell D water in Cell E subsurface.

Water Cell E and Cell F as required.

Maintain vegetation in Cell E.

Dismantle and dispose of surplus pipe.



4.0 GROUNDWATER AND SUBSOIL REMEDIATION

4.1 Summary of Activities

4.1.1 Operation of Production and Injection Well Systems

Operation of the production and injection wells systems during May 1995 is summarized in Table 4-1. Flows from the production well system are summarized in Table 4-2 and Figure 4-1. Flows into the injection well system are summarized in Table 4-3 and Figure 4-2. Individual well flows are summarized in Table 4-4.

4.1.2 Operational Monitoring

Operational monitoring associated with the groundwater and subsoil remediation system during May, 1995, is summarized in Table 4-5. Results of the annual GW sampling have been issued to the EPA and placed in the appropriate repositories.

4.1.3 Data Management and Evaluation

Operational monitoring data from the groundwater and subsoil remediation system for this reporting period were entered into FLTG's database. Tables and figures for this section of the Monthly Progress Report were generated from this database.

4.2 Problems and Response Actions

Groundwater production and injection rates were at or above the targets of both production and injection wells. The new goal for production well rates is 90 gpm. See Table 4-1. Nutrient and dissolved oxygen concentrations in injection water were at or close to target levels. No specific response action is planned.

MONTHLY PROGRESS REPORT
Groundwater and Subsoil Remediation

French Ltd. Project
FLTG, Incorporated

Table 4-1

Groundwater System Operation - May 1995 <i>Reporting Period: May 1-31 (31 days)</i>	
Production System	
No. of production wells: 113 (S1 unit, 53; INT unit, 60)	
No. of operational wells by end of month: 60 (S1 unit, 16; INT unit, 44)	
Changes in system since last month:	
No. of wells off line having reached criteria: 37	
16 wells off inside lagoon	
Groundwater produced: 4.5 M gal; 256.5 M gal since startup based on main meter	
Total production rate: avg. 91.4 gpm (target 90 gpm); range 85-122 gpm	
S1 production rate: avg. 48.8 gpm; avg. 3.0 gpm per metered well	
INT production rate: avg. 42.6 gpm; avg. 1.0 gpm per metered well	
Total flow rate apportioned between S1 and INT units based on individual well meter readings; average flows based on 31 days operation	
TOC (non-volatile) concentration avg. 31 ppm; range 31-58 ppm	
TOC mass removed: 1,167 lb. (368,938 lb. since startup); 38 lb./day	
Injection System	
No. of injection wells: 67 (S1 unit, 21 [13 on line]; INT unit, 46 [31 on line])	
Rainfall during period: approximately 12 inches	
Changes in system since last month: converted S1-31 to injection	
Groundwater injected: 6.0 M gal (156.2 M gal since startup) based on main meters	
S1 unit injected: 3.3 M gal (85.8 M gal since startup)	
INT unit injected: 2.7 M gal (70.4 M gal since startup)	
Total injection rate: avg. 98.4 gpm (target 100 gpm); range 92-151 gpm	
S1 injection rate: avg. 42.9 gpm; avg. 3.6 gpm per well	
INT injection rate: avg. 55.5 gpm; avg. 1.8 gpm per well	
Total flow rate apportioned between S1 and INT units based on individual well meter readings; average flows based on 31 days operation	
Oxygen added to injection water: 9,820 lb.; 316.8 lb./day used (input efficiency = 27%)	
Avg. DO in injection water: S1, 47.0 ppm; INT, 56.1 ppm (target 40 ppm) \Rightarrow 85.7 lb./day injected	
Volume of 9.1% w/w KNO_3 nutrient solution added to INT unit, and 2 S1-North wells: 10,725 gal	
Nutrient flow rate: 346 gpd, 0.27% of INT + S1-North inflow rate (target 0.38%)	
Calculated injection water NO_3^- concentration: 68.9 mg/L-N (target 50 mg/L-N)	

Note that average monthly flow rates at individual wells (calculated from weekly individual well flow meter readings) are not used directly to determine S1 and INT unit inflows and outflows, but are used to apportion total production and injection flows (calculated from daily main production and injection meter readings) between S1 and INT units. Average flows are based on the 31 day reporting period.

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MONTHLY PROGRESS REPORT
Groundwater and Subsoil Remediation

French Ltd. Project
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Table 4-2

Daily Groundwater Production and TOC Removal
May 1995

Date	Project Day	T-101	T-101	T-101	T-101
		Outflow Rate (FQ-101A)	Outflow Rate (gpm)	Influent Ave. TOC (mg/L)	Influent TOC Loading (kg/day)
1-May	1209	129,300	90	38	19
2-May	1210	136,900	95	38	20
3-May	1211	143,500	100	25	14
4-May	1212	143,700	100	34	18
5-May	1213	143,600	100	30	16
6-May	1214	134,500	93	30	15
7-May	1215	137,800	96	30	16
8-May	1216	154,100	107	31	18
9-May	1217	155,500	108	31	18
10-May	1218	139,500	97	31	16
11-May	1219	146,300	102	31	17
12-May	1220	156,100	108	23	14
13-May	1221	147,300	102	32	18
14-May	1222	140,000	97	32	17
15-May	1223	151,900	105	30	17
16-May	1224	155,700	108	30	18
17-May	1225	151,400	105	24	14
18-May	1226	148,300	103	31	17
19-May	1227	156,300	108	29	17
20-May	1228	146,900	102	34	19
21-May	1229	138,200	96	33	17
22-May	1230	143,100	99	30	16
23-May	1231	151,000	105	28	17
24-May	1232	148,200	103	28	16
25-May	1233	142,200	99	45	24
26-May	1234	122,300	85	34	16
27-May	1235	158,200	110	28	17
28-May	1236	141,400	98	29	16
29-May	1237	148,800	103	30	17
30-May	1238	175,100	122	30	20
31-May	1239	143,100	99	28	15
Month Average		146,135	101	31	17
Month Total		4,530,200		1165 lb	529

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Table 4-3

Daily Injection Flows
May 1995

Date	Project Day	INT South INT-80/100 S1 North Injection Wells FQ905		INT North (not INT-80/100) Injection Wells Meter FQ-806		S1 South Injection Wells Meter FQ-809		Total Injection Rate		Oxygen	Nutrients
		(gpd)	(gpm)	(gpd)	(gpm)	(gpd)	(gpm)	(gpd)	(gpm)	lbs	Gallons
1-May	1209	41,800	29	41,600	29	92,100	64	175,500	122	400	315
2-May	1210	40,500	28	43,600	30	115,200	80	199,300	138	240	337
3-May	1211	41,200	29	44,500	31	112,500	78	198,200	138	380	331
4-May	1212	39,800	28	42,800	30	115,900	80	198,500	138	300	338
5-May	1213	40,100	28	44,100	31	115,400	80	199,600	139	320	334
6-May	1214	40,000	28	43,900	30	114,700	80	198,600	138	300	322
7-May	1215	39,900	28	44,200	31	122,200	85	206,300	143	360	296
8-May	1216	39,500	27	44,400	31	127,000	88	210,900	146	315	270
9-May	1217	38,700	27	42,900	30	127,000	88	208,600	145	280	304
10-May	1218	36,700	25	38,700	27	123,800	86	199,200	138	355	307
11-May	1219	33,600	23	30,800	21	124,600	87	189,000	131	360	330
12-May	1220	38,800	27	40,300	28	106,800	74	185,900	129	320	312
13-May	1221	41,700	29	42,200	29	100,100	70	184,000	128	300	285
14-May	1222	41,100	29	44,300	31	94,200	65	179,600	125	380	318
15-May	1223	43,100	30	46,400	32	87,900	61	177,400	123	280	318
16-May	1224	43,300	30	48,500	34	98,200	68	190,000	132	360	330
17-May	1225	47,800	33	48,800	34	120,500	84	217,100	151	320	326
18-May	1226	42,700	30	50,700	35	116,600	81	210,000	146	360	326
19-May	1227	45,300	31	50,400	35	119,700	83	215,400	150	300	334
20-May	1228	46,700	32	51,200	36	108,800	76	206,700	144	300	342
21-May	1229	45,800	32	49,800	35	115,900	80	211,500	147	395	323
22-May	1230	45,900	32	49,900	35	116,200	81	212,000	147	300	343
23-May	1231	45,500	32	49,000	34	113,400	79	207,900	144	300	338
24-May	1232	43,800	30	47,400	33	110,500	77	201,700	140	300	319
25-May	1233	45,700	32	47,100	33	114,200	78	207,000	144	200	330
26-May	1234	46,300	32	47,700	33	112,800	78	206,800	144	220	315
27-May	1235	46,200	32	49,300	34	116,000	81	211,500	147	380	331
28-May	1236	46,400	32	48,500	34	112,100	78	207,000	144	300	304
29-May	1237	46,000	32	48,700	34	110,700	77	205,400	143	400	201
30-May	1238	38,300	27	42,100	29	86,700	60	167,100	116	295	163
31-May	1239	38,200	27	28,400	20	65,500	45	132,100	92	200	1383
Month Average		42,271	29	44,910	31	110,232	77	197,413	137	327	358
Month Total		1,310,400		1,392,200		3,417,200		6,119,800		9,820	10,725

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Table 4-4**Average Production and Injection Flow Rates - May 1995**

S1 Production Wells (16)		S1 Injection Wells (13)		INT Production Wells (44)		INT Injection Wells (31)	
Well ID	gpm	Well ID	gpm	Well ID	gpm	Well ID	gpm
S1-1	OFF	S1-18	2.7	INT-1	1.0	INT-63	2.3
S1-2	OFF	S1-31	OFF	INT-2	0.8	INT-64	2.9
S1-3	OFF	S1-49	OFF	INT-3	0.1	INT-71	2.2
S1-4	OFF	S1-50	OFF	INT-4	0.2	INT-72	0.7
S1-5	OFF	S1-51	OFF	INT-5	1.3	INT-73	2.6
S1-6	OFF	S1-52	OFF	INT-6	0.2	INT-74	1.8
S1-7	OFF	S1-53	OFF	INT-7	0.2	INT-75	0.4
S1-8	OFF	S1-54	2.1	INT-8	1.4	INT-76	2.9
S1-9	OFF	S1-55	1.9	INT-9	0.8	INT-77	3.8
S1-10	OFF	S1-56	OFF	INT-10	3.4	INT-78	3.7
S1-11	OFF	S1-57	OFF	INT-11	0.4	INT-79	0.6
S1-12	OFF	S1-58	OFF	INT-12	1.3	INT-80	1.1
S1-13	OFF	S1-59	2.9	INT-13	0.3	INT-81	4.8
S1-14	OFF	S1-65	4.9	INT-14	OFF	INT-82	0.4
S1-15	OFF	S1-66	5.1	INT-15	OFF	INT-83	0.2
S1-16	OFF	S1-67	5.8	INT-16	OFF	INT-84	2.4
S1-17	1.5	S1-68	4.7	INT-17	OFF	INT-85	OFF
S1-18	2.8	S1-69	3.2	INT-18	OFF	INT-86	OFF
S1-20	2.8	S1-70	2.6	INT-19	0.2	INT-87	OFF
S1-21	10.1	S1-101	1.8	INT-20	0.2	INT-88	OFF
S1-22	1.4	S1-133	5.6	INT-21	0.4	INT-89	OFF
S1-23	OFF	Total	42.8	INT-22	0.2	INT-90	OFF
S1-24	OFF	Average	3.6	INT-23	0.1	INT-91	OFF
S1-25	1.3			INT-24	0.5	INT-92	OFF
S1-26	6.8			INT-25	OFF	INT-93	OFF
S1-27	1.2			INT-26	0.5	INT-94	OFF
S1-28	4.1			INT-27	1.4	INT-95	OFF
S1-29	1.7			INT-28	0.5	INT-96	OFF
S1-30	2.8			INT-29	OFF	INT-97	1.6
S1-31	OFF			INT-30	OFF	INT-98	1.7
S1-32	3.6			INT-31	OFF	INT-99	OFF
S1-33	OFF			INT-32	OFF	INT-100	OFF
S1-34	OFF			INT-33	OFF	Total	OFF
S1-35	OFF			INT-55	2.1	INT-201	OFF
S1-36	OFF			INT-56	0.5	INT-202	1.1
S1-37	OFF			INT-57	2.8	INT-203	0.3
S1-38	OFF			INT-58	1.6	INT-204	1.4
S1-39	OFF			INT-59	0.3	INT-218	2.1
S1-40	OFF			INT-60	1.8	INT-219	1.4
S1-41	OFF			INT-61	1.3	INT-220	0.7
S1-42	OFF			INT-62	0.4	INT-221	0.8
S1-43	OFF			INT-63	OFF	INT-222	3.4
S1-44	OFF			INT-64	OFF	INT-223	1.6
S1-45	OFF			INT-65	OFF	INT-224	2.0
S1-46	OFF			INT-66	OFF	INT-225	3.7
S1-47	OFF			INT-143	0.2	INT-226	0.5
S1-48	OFF			INT-205	0.8	INT-227	0.5
S1-60	OFF			INT-206	0.6	Total	55.6
S1-61	0.7			INT-207	0.8	Average	1.8
S1-62	5.7			INT-208	3.6		
S1-63	3.1			INT-209	0.2		
S1-64	0.2			INT-210	1.4		
				INT-211	OFF		
Total	48.8			INT-212	1.6		
Average*	3.6			INT-213	1.7		
				INT-214	OFF		
* of metered wells				INT-215	2.6		
				INT-216	OFF		
				INT-217	2.0		
				INT-228	0.2		
				INT-229	0.4		
				INT-230	0.6		
				Total	42.6		
				Average	1.6		

Notes
 OFF - well inoperative
 NM - well running but not metered
 PP - well in pulse pumping mode

Note: total and average flow rates for S1 and INT units are corrected (per main flow meter readings) for use in Table 4-1.

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Table 4-5
Operational Monitoring - May 1995

Activity	Frequency	Purpose
Check production and injection wells for pump, meter, and level control operation, injection pressure, and gas buildup.	Daily	Identify and respond to individual well problems; maintain operating efficiency.
Flow meter readings	Weekly	Identify and respond to individual well problems; maintain operating efficiency.
Read groundwater treatment plant inflow and outflow meters; nutrient injection flow meters; oxygen flows, pressure and temperature; and injection header back pressure.	2x daily	Identify and respond to treatment plant problems; control nutrient and injection flow rates.
Measure T-101 influent TOC.	2x daily	Track TOC removal.
Measure dissolved oxygen at 6 representative S1 and INT injection wells.	Weekly	Control oxygen injection.
Conduct water levels DO and TOC on 22 monitoring wells.	Weekly	Define progress of new INT wells and shut-off areas. Track DO break-thru.
Conduct water levels on shut-off wells.	Monthly	Track level recovery in shut-off wells.
Conduct TOC and DO on select production wells.	Weekly	Track TOC and DO levels in critical areas.

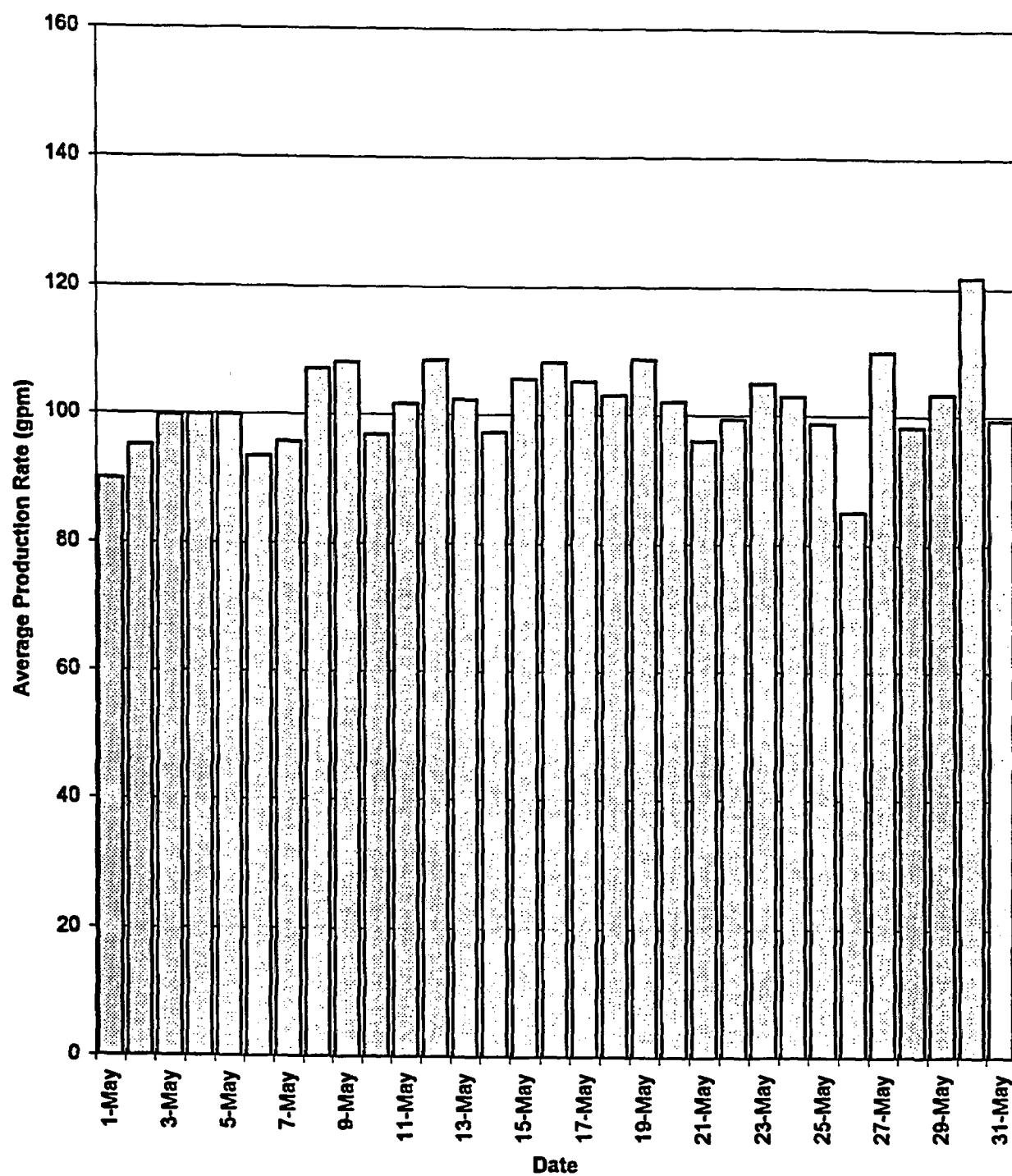
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Figure 4-1

Production Flows



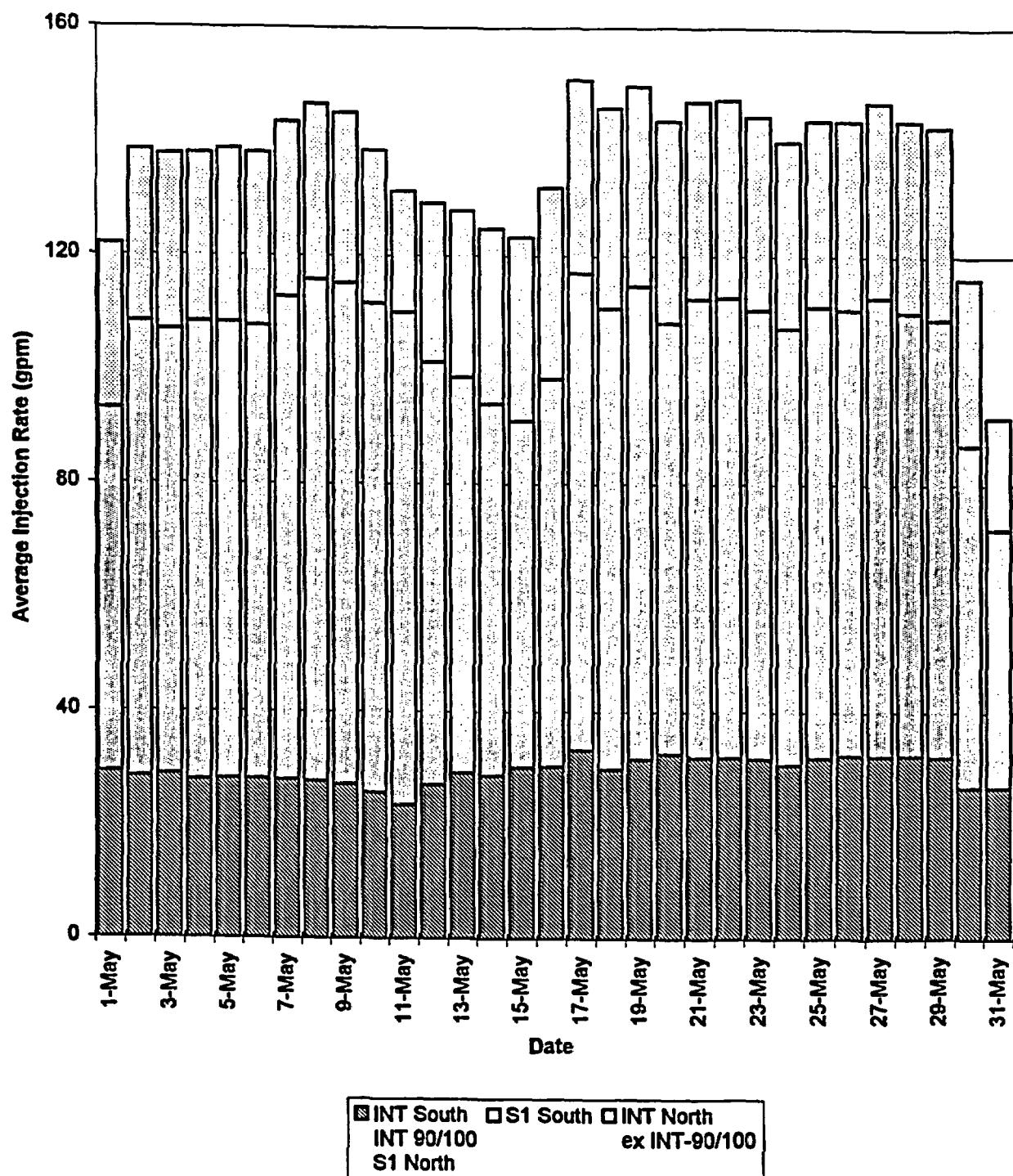
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Figure 4-2

Injection Flows



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4.3 Pending Issues

4.3.1 S1 Unit Pulse Pumping

No wells are on a pulse pump program this period.

4.4 Operational Refinements

S1-31 was converted to an injection well. INT-228, -229, and -230 were re-developed utilizing a surge block. Add -228 and -230 to vacuum enhancement program.

4.5 Data Summary and Discussion

4.5.1 Groundwater Production and Injection

Groundwater production rates were adjusted to 90 gpm to compensate for the expanded shut-off. Injection rate target remains the same.

4.5.2 Groundwater Levels and Flow Directions

The current extent of contaminated groundwater is contained within the S1 and INT extraction system capture zones.

Water level contour maps are presented on a quarterly basis.

4.5.3 TOC in shallow groundwater

TOC analyses on production wells were completed the first week in May. The analyses are in Table 4-7 and Table 4-8. The overall average TOC level continues to drop.

4.5.4 In-Situ Bioremediation

The emphasis continues to be to maximize delivery of oxygen and nutrients to the INT system. Dissolved oxygen analysis was conducted on the monitoring wells during the third well volume pumped.

A work plan was developed for natural attenuation modeling and submitted to USEPA.

Three Biological Activity Monitors (BAM) were installed in each of the 11 S1 monitoring wells and 14 INT monitoring wells during the first week of May. Coupons were incubated for 26 days and analyzed prior to continuing the program. The data for sets of coupons in the S1 and INT zones are summarized in Table 4-6. The mean activity for the system was generally constant for the S1 zone but

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decreased in the INT zone. Variation between coupons in the same well remains low and consistent with previous monitoring periods in both zones.

Figure 4-3 shows activity in the S1 zone during the past 120 days. Activity decreased in all S1 wells during May. The population also decreased sharply in S1-131 after significant increases in the three preceding incubation periods. The aquifer mean decreased by 60% over previous means. Activity levels in the S1 zone are now very similar to those in the INT zone.

Activity in the INT zone during the last 120 day period is shown in Figure 4-4. Activity decreased in nearly all wells in the INT during May. The mean for the period was lower than previous periods.

Most of the coupons in both aquifers appear to be approaching a constant activity of 0.35 ± 0.05 units or about 5×10^8 CFU/coupon. This appears to be a baseline activity and may represent the intrinsic level of activity for the system.

4.6 Schedule

Install 3-HP motor on INT-230 pump to overcome additional TDH (Total Dynamic Head) of vacuum enhancement.

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Table 4-6

Biological Activity Monitor Results and Statistics**S1 MONITOR WELLS**

		*****MEAN*****			
LOCATION	WELL	FEB	MAR	APR	MAY
CENTRAL	106	0.46	0.71	0.61	0.30
CENTRAL	108	0.57	0.27	0.37	0.21
CENTRAL	121	0.66	0.64	0.42	0.39
CENTRAL	123	1.05	0.69	0.43	0.35
WEST	110	0.46	0.12	0.41	0.94
WEST	112	0.38	0.18	0.39	1.33
INSIDE	ERT-9A	6.24	2.34	0.65	0.48
INSIDE	P-6	0.84	1.29	0.94	0.27
INSIDE	126	1.58	1.31	0.59	0.78
EAST	130	0.51	1.83	1.97	0.30
EAST	131	1.24	2.83	7.85	0.26
MEAN	monthly mean	1.27	1.11	1.33	0.51

INT MONITOR WELLS

		*****MEAN*****			
LOCATION	WELL	FEB	MAR	APR	MAY
CENTRAL	102	0.63	0.56	0.38	0.33
CENTRAL	105	0.27	0.68	0.39	0.32
CENTRAL	106	0.36	0.37	0.48	0.32
CENTRAL	108	0.54	0.41	0.45	0.36
INSIDE	W-7	0.75	0.96	0.53	0.37
INSIDE	129	0.76	0.63	0.53	0.35
INSIDE	131	0.48	0.72	0.37	0.38
WEST	REI-10-3	1.18	0.20	0.51	0.26
WEST	W-3	0.60	0.11	0.37	0.41
WEST	101	0.38	0.21	0.37	0.46
WEST	111	0.50	0.76	0.46	0.43
WEST	112	0.57	0.19	0.51	0.38
WEST	113	0.65	0.13	0.86	0.33
WEST	134	0.44	0.12	0.37	0.29
MEAN	monthly mean	0.58	0.43	0.47	0.36

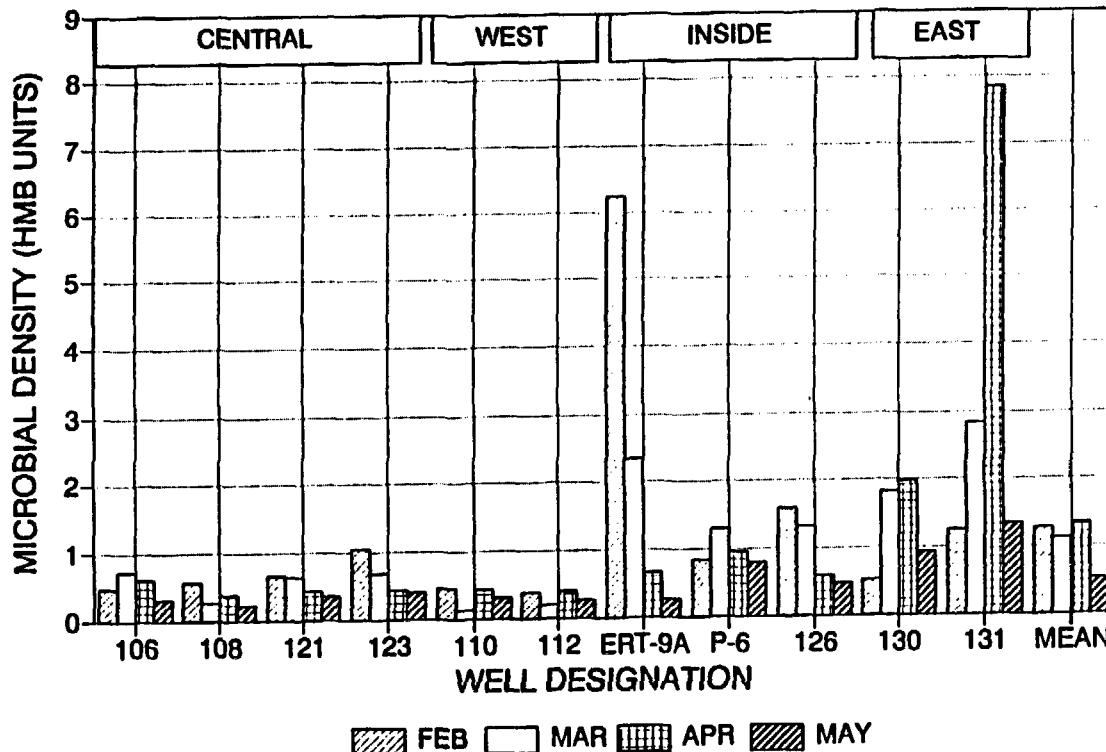
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Figure 4-3

Coupon HMB Values for S1 Zone
1995 BAM PROGRAM, FRENCH LTD. PROJECT



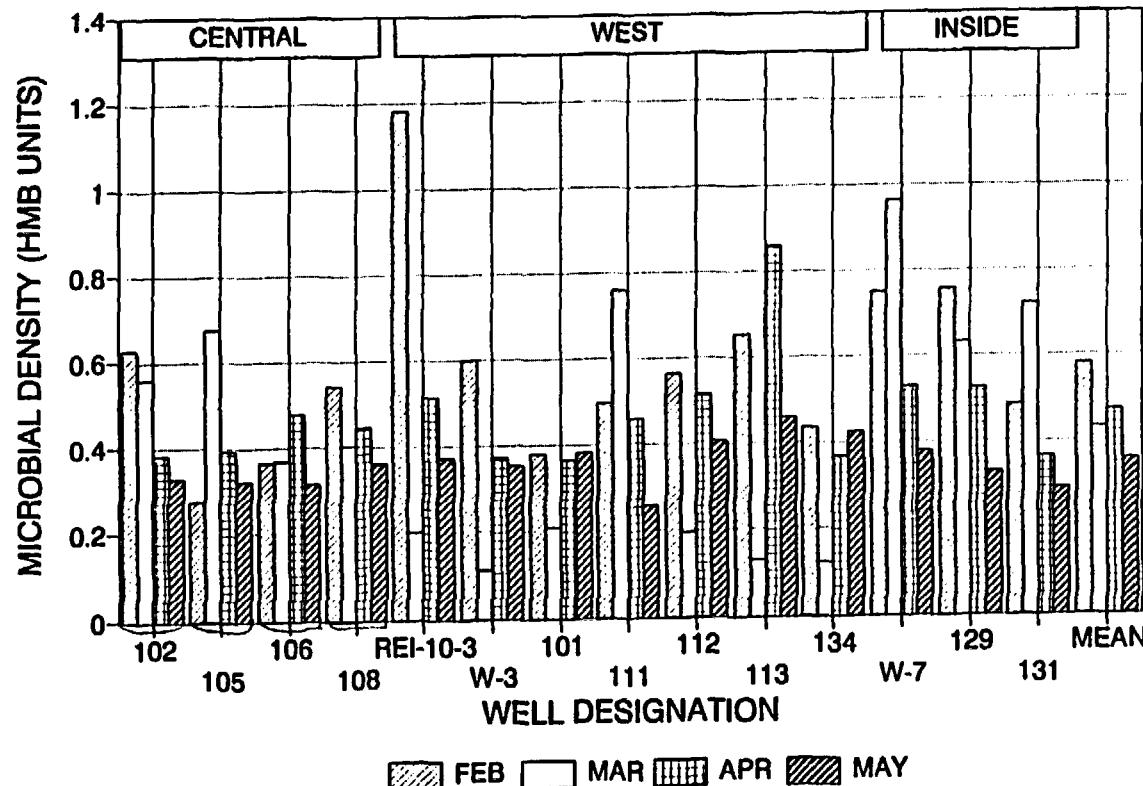
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Figure 4-4

Coupon HMB Values for INT Zone
1995 BAM PROGRAM, FRENCH LTD. PROJECT



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Table 4-7

HISTORY OF TOC CONCENTRATIONS AT S1 PRODUCTION WELLS												
Well ID	Baseline Nov-Dec 91 (ppm)	Mar 1994 (ppm)	June 1994 (ppm)	Sep 1994 (ppm)	Nov 1994 (ppm)	Dec 1994 (ppm)	Jan 1995 (ppm)	Feb 1995 (ppm)	Mar 1995 (ppm)	Apr 1995 (ppm)	May 1995 (ppm)	
S1-1	290	1,317	1,360	1,133	1,215	NS	1,592	NS	NS	NS	NS	
S1-2	190	1,510	1,139	1,251	NS	NS	1,044	NS	NS	NS	NS	
S1-3	370	1,037	755	566	750	NS	624	NS	NS	NS	NS	
S1-4	47	1,025	668	620	576	NS	582	NS	NS	NS	NS	
S1-5	51	1,151	473	NS	NS	NS	504	NS	NS	NS	NS	
S1-6	51	1,315	892	928	NS	NS	774	NS	NS	NS	NS	
S1-7	200	1,327	788	660	NS	NS	708	NS	NS	NS	NS	
S1-8	64	1,516	1,110	935	908	NS	708	NS	NS	NS	NS	
S1-9	77	2,085	1,589	567	NS	NS	1,520	NS	NS	NS	NS	
S1-10	46	2,540	1,800	567	2,001	NS	2,205	1,860	448	1,680	NS	
S1-11	120	NS	1,751	2,510	1,825	NS	2,121	2,320	40	1,608	NS	
S1-12	140	2,129	1,445	2,355	1,086	NS	1,850	1,960	344	105	NS	
S1-13	520	990	722	1,077	950	NS	678	820	312	0	NS	
S1-14	590	1,616	1,443	1,440	1,000	NS	1,392	1,430	592	1,340	NS	
S1-15	5,300	2,778	2,280	2,583	1,450	NS	2,597	2,530	1,488	3,059	NS	
S1-16	8,900	2,732	718	NS	1,744	NS	1,050	330	136	288	NS	
S1-17	6,800	344	180	141	92	NS	73	76	72	46	29	
S1-18	2,200	44	34	49	45	NS	24	37	72	23	NS	
S1-19	20	33	28	39	22	NS	14	16	32	18	13	
S1-20	120	141	50	60	43	NS	21	16	17	6	6	
S1-21	65	17	8	42	11	NS	6	3	11	15	BOL	
S1-22	290	4	19	64	31	NS	30	55	NS	199	135	
S1-23	350	27	21	29	20	NS	13	12	NS	7	NS	
S1-24	250	16	18	42	17	NS	13	10	NS	19	NS	
S1-25	550	16	15	33	23	NS	13	13	NS	10	27	
S1-26	540	22	18	49	16	NS	14	11	NS	10	25	
S1-27	220	60	42	83	128	NS	25	31	NS	24	34	
S1-28	370	12	15	21	18	NS	14	16	NS	10	31	
S1-29	670	23	20	33	20	NS	16	11	NS	23	31	
S1-30	370	78	31	86	28	NS	20	22	NS	15	NS	
S1-31	14	29	17	29	25	NS	12	11	NS	NS	NS	
S1-32	18	85	49	73	40	NS	35	37	41	73	19	
S1-33	10	16	NS	567	NS							
S1-34	11	75	13	18	NS							
S1-35	24	45	43	37	NS	NS	28	NS	NS	NS	NS	
S1-36	200	44	27	39	NS							
S1-37	13	55	9	36	NS							
S1-38	59	6	NS	22	NS							
S1-39	290	22	11	17	NS	NS	10	12	NS	NS	NS	
S1-40	150	33	15	17	18	NS	18	21	NS	NS	NS	
S1-41	170	12	11	16	NS	NS	10	16	NS	NS	NS	
S1-42	88	37	NS	22	NS							
S1-43	4	NS	NS	14	NS							
S1-44	280	44	21	28	NS	NS	9	19	NS	NS	NS	
S1-45	4,400	30	NS	24	NS	NS	10	32	NS	NS	NS	
S1-46	480	10	NS	24	10	NS	4	11	NS	NS	NS	
S1-47	1,200	61	NS	31	NS	NS	24	28	NS	NS	NS	
S1-48	1,200	31	NS	22	NS	NS	15	22	NS	NS	NS	
S1-50	48	15	NS	17	NS	NS	8	14	NS	NS	NS	
S1-51	NS	NS	758	368	152	NS	78	116	108	63	23	
S1-52	NS	NS	125	27	18	NS	20	14	11	3	4	
S1-53	NS	NS	264	241	150	NS	155	120	70	47	27	
S1-54	NS	NS	512	66	55	NS	44	50	43	61	52	

NS = Not Sampled

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Table 4-8

HISTORY OF TOC CONCENTRATIONS AT INT PRODUCTION WELLS													
Well ID	Baseline Nov-Dec 91 (ppm)	Mar 1994 (ppm)	June 1994 (ppm)	Sep 1994 (ppm)	Nov 1994 (ppm)	Dec 1994 (ppm)	Jan 1995 (ppm)	Feb 1995 (ppm)	Mar 1995 (ppm)	Apr 1995 (ppm)	May 1995 (ppm)		
INT-1	3,600	800	374	320	253	NS	204	270	273	369	172		
INT-2	1,800	290	339	281	214	NS	91	492	563	253	692		
INT-3	5,200	1,188	1,260	932	1,550	NS	1,016	940	624	551	452		
INT-4	610	1,300	541	430	NS	NS	198	180	209	229	149		
INT-5	960	205	101	103	90	NS	76	70	45	87	68		
INT-6	280	510	200	195	100	NS	76	72	46	65	68		
INT-7	100	99	140	101	38	NS	120	123	NS	116	102		
INT-8	75	84	60	64	43	NS	47	45	NS	47	43		
INT-9	800	142	77	70	NS	NS	68	58	NS	72	129		
INT-10	1,900	112	62	82	135	NS	45	45	20	55	56		
INT-11	590	NS	44	113	31	NS	31	27	29	50.4	43		
INT-12	3,300	106	105	74	23	NS	32	16	31	72	65		
INT-13	590	63	89	50	23	NS	34	12	NS	11	9		
INT-14	24	112	NS	119	53	NS	39	50	54	0	NS		
INT-15	19	20	19	47	18	NS	17	16	NS	NS	NS		
INT-16	2,000	15	11	68	9	NS	6	11	NS	NS	NS		
INT-17	7	13	NS	19	14	NS	8	14	NS	NS	NS		
INT-18	4	162	73	57	29	NS	24	20	31	35	NS		
INT-19	1,400	55	36	38	39	NS	56	49	NS	38	714		
INT-20	3,500	2,525	1,922	1,182	NS	NS	1,480	1,476	1,425	998	1480		
INT-21	29	240	214	190	NS	NS	204	132	540	188	200		
INT-22	8	55	44	95	NS	NS	117	135	189	160	135		
INT-23	16	40	50	112	NS	NS	35	40	30	NS	29		
INT-24	240	136	89	84	65	NS	58	56	NS	47	48		
INT-25	36	65	24	29	NS	NS	20	18	NS	NS	NS		
INT-26	120	152	38	122	123	NS	110	108	NS	107	76		
INT-27	180	116	85	79	80	NS	65	75	NS	65	60		
INT-28	630	48	34	37	23	NS	22	26	NS	47	37		
INT-29	1,100	104	65	76	58	NS	35	40	NS	NS	NS		
INT-30	1,400	32	32	45	24	NS	27	20	NS	NS	NS		
INT-31	70	52	25	82	30	NS	20	18	NS	NS	NS		
INT-32	880	16	24	22	11	NS	12	16	NS	NS	NS		
INT-33	120	255	47	20	17	NS	10	8	NS	NS	NS		
INT-55	NS	115	98	122	61	NS	65	48	NS	78	44		
INT-56	NS	925	435	297	146	NS	132	120	NS	131	104		
INT-57	NS	40	61	66	51	NS	75	68	NS	55	61		
INT-58	NS	76	45	34	33	NS	28	29	NS	26	21		
INT-59	NS	115	77	79	49	NS	50	42	NS	61	43		
INT-60	NS	195	118	110	85	NS	86	80	NS	90	75		
INT-61	NS	95	48	39	40	NS	31	31	NS	32	27		
INT-62	NS	100	38	35	43	NS	29	20	NS	28	25		
INT-65	NS	NS	65	66	61	NS	51	41	NS	50	NS		
INT-66	NS	175	113	120	94	NS	94	85	NS	51	NS		
INT-205	NS	120	39	61	39	NS	34	34	NS	50	42		
INT-206	NS	44	53	107	86	NS	68	60	NS	51.5	46		
INT-207	NS	56	52	45	60	NS	74	92	95	100.1	70		
INT-208	NS	20	38	22	16	NS	11	18	NS	16	NS		
INT-209	NS	52	43	37	19	NS	13	17	NS	5	4.3		
INT-210	NS	24	22	27	28	NS	23	26	NS	28	27		
INT-211	NS	88	57	43	46	NS	29	41	NS	NS	NS		
INT-212	NS	NS	36	27	38	NS	41	38	NS	69	48		
INT-213	NS	NS	36	83	70	NS	91	143	NS	89	205		
INT-214	NS	NS	35	46	31	NS	22	26	NS	NS	NS		
INT-215	NS	NS	170	82	82	NS	56	67	NS	43	44		
INT-216	NS	NS	22	34	28	NS	26	34	NS	NS	NS		
INT-217	NS	NS	62	66	61	NS	60	62	NS	75	72		

NS = Not Sampled

Averages

S1	784	565	484	387	439	NS	451	336	226	337	33	
INT	957	236	148	125	89	NS	100	105	263	111	148	

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**MONTHLY PROGRESS REPORT
Groundwater and Subsoil Remediation**

**French Ltd. Project
FLTG, Incorporated**

Table 4-9

Water Level Measurements 1/2/95 to 1/4/95				Water Level Measurements 5/28/95			
Well ID	DTW (ft)	TOC (ft MSL)	WL (ft MSL)	Well ID	DTW (ft)	TOC (ft MSL)	WL (ft MSL)
ERT-01	21.89	18.85	-3.24	ERT-01	7.08	18.85	11.57
ERT-02		18.43	NM	ERT-02		18.43	NM
ERT-03	18.70	15.53	-3.17	ERT-03	3.81	15.53	11.72
ERT-07	18.74	17.96	-0.78	ERT-07		17.96	NM
ERT-08	19.04	18.34	-0.70	ERT-08	8.33	18.34	10.01
ERT-09	21.50	18.52	-2.98	ERT-09	7.22	18.52	11.30
ERT-10		18.54	NM	ERT-10		18.54	NM
ERT-20		11.66	NM	ERT-20	0.86	11.66	10.80
ERT-21		13.83	NM	ERT-21	4.21	13.83	9.42
ERT-22		11.66	NM	ERT-22	6.89	11.66	4.77
ERT-23	5.84	15.85	10.01	ERT-23	4.41	15.85	11.44
ERT-24	5.07	12.98	7.91	ERT-24	4.00	12.98	8.98
ERT-25	4.91	15.18	10.27	ERT-25	4.52	15.18	10.66
ERT-26	5.27	15.77	10.50	ERT-26	5.15	15.77	10.82
ERT-27	3.66	18.67	15.01	ERT-27	3.70	18.67	14.97
ERT-28	11.11	22.11	11.00	ERT-28	9.16	22.11	12.85
ERT-29	10.07	21.86	11.59	ERT-29	10.46	21.86	11.20
ERT-30	13.91	19.84	5.73	ERT-30	11.18	19.84	8.46
ERT-33	4.98	15.20	10.31	ERT-33	4.60	15.20	10.69
ERT-34	5.20	15.56	10.38	ERT-34	4.82	15.56	10.74
FLTG-01	2.25	9.84	7.58	FLTG-01	1.63	9.84	6.21
FLTG-02	0.40	9.51	9.11	FLTG-02	0.15	9.51	9.36
FLTG-03	3.00	10.96	7.96	FLTG-03	2.78	10.96	8.18
FLTG-04	2.38	11.28	8.92	FLTG-04	2.22	11.28	9.06
FLTG-05	2.53	11.80	9.27	FLTG-05	2.48	11.80	9.34
FLTG-06	2.72	12.02	9.30	FLTG-06	2.71	12.02	9.31
FLTG-07	6.06	13.31	7.25	FLTG-07	5.33	13.31	7.98
FLTG-08		13.10	NM	FLTG-08	2.42	13.10	10.68
FLTG-09	4.34	14.80	10.48	FLTG-09	4.10	14.80	10.70
FLTG-10	4.35	14.87	10.52	FLTG-10	4.15	14.87	10.72
FLTG-11	4.40	15.36	10.66	FLTG-11	5.45	15.36	9.91
FLTG-12	4.40	15.28	10.88	FLTG-12	5.31	15.28	9.97
FLTG-13	0.24	12.02	11.78	FLTG-13	1.06	12.02	10.96
FLTG-14	1.13	11.51	10.38	FLTG-14	0.90	11.51	10.61
FLTG-15	3.45	12.53	9.08	FLTG-15	2.25	12.53	10.28
INT-059-P1	12.87	11.84	-1.23	INT-059-P1	11.70	11.84	-0.06
INT-059-P2		11.88	NM	INT-059-P2		11.88	NM
INT-059-P4	8.85	11.87	3.02	INT-059-P4	5.28	11.67	6.39
INT-060-P1	22.06	12.02	-10.04	INT-080-P1	20.10	12.02	-8.08
INT-060-P2		11.99	NM	INT-080-P2		11.99	NM
INT-060-P4	8.25	12.03	3.78	INT-060-P4	4.92	12.03	7.11
INT-101	11.55	13.12	1.57	INT-101	5.49	13.12	7.63
INT-102	10.80	14.92	4.12	INT-102	8.85	14.92	6.07
INT-103	0.83	11.86	11.03	INT-103	2.07	11.86	9.79
INT-104	2.49	13.43	10.94	INT-104	5.07	13.43	8.38
INT-105	4.78	12.84	7.86	INT-105	1.76	12.84	10.88
INT-106	5.77	11.59	5.82	INT-106	3.02	11.59	8.57
INT-107	6.80	14.94	8.14	INT-107	5.91	14.94	9.03
INT-108	12.36	13.50	1.14	INT-108	7.47	13.50	6.03
INT-109	8.93	11.84	2.91	INT-109	5.38	11.84	6.46
INT-110	11.49	12.81	1.32	INT-110	5.91	12.81	6.90
INT-111	10.72	11.80	0.88	INT-111	8.67	11.80	2.93
INT-112	11.38	12.75	1.37	INT-112	6.00	12.75	6.75
INT-113	13.00	15.71	2.71	INT-113	6.95	15.71	8.78

MONTHLY PROGRESS REPORT
Groundwater and Subsoil Remediation

French Ltd. Project
FLTG, Incorporated

Table 4-9 (Continued)

Water Level Measurements 1/2/95 to 1/4/95				Water Level Measurements 5/28/95			
Well ID	DTW (ft)	TOC (ft MSL)	WL (ft MSL)	Well ID	DTW (ft)	TOC (ft MSL)	WL (ft MSL)
INT-114	11.23	11.55	0.32	INT-114	4.41	11.55	7.14
INT-115	6.43	15.16	8.73	INT-115	6.28	15.16	8.88
INT-116	10.76	14.81	4.05	INT-116	10.15	14.81	4.66
INT-117	18.75	20.96	2.21	INT-117	17.21	20.96	3.75
INT-118	8.59	19.53	10.94	INT-118	8.80	19.53	10.73
INT-119	8.70	15.45	6.75	INT-119	6.50	15.45	8.95
INT-120		15.05	NM	INT-120	5.51	15.05	9.54
INT-121		15.25	NM	INT-121	7.42	15.25	7.83
INT-122		15.37	NM	INT-122	7.72	15.37	7.85
INT-123		15.05	NM	INT-123	5.58	15.05	9.47
INT-124		14.40	NM	INT-124	3.17	14.40	11.23
INT-125		13.67	NM	INT-125	4.21	13.67	9.48
INT-126		11.72	NM	INT-126	0.01	11.72	11.71
INT-127		11.12	NM	INT-127	3.71	11.12	7.41
INT-128		11.15	NM	INT-128	0.77	11.15	10.38
INT-129		5.14	NM	INT-129	7.40	5.14	-2.26
INT-130		11.21	NM	INT-130	1.03	11.21	10.18
INT-131		5.83	NM	INT-131	7.58	5.83	-1.75
INT-132	19.31	14.96	-4.35	INT-132	11.29	14.96	3.67
INT-133	20.58	16.89	-3.69	INT-133	7.71	16.89	9.18
INT-134	25.32	16.79	-8.53	INT-134	12.60	16.79	4.19
INT-135	30.58	17.99	-12.59	INT-135	24.35	17.99	-6.36
INT-136	19.09	14.40	-4.69	INT-136	12.37	14.40	2.03
INT-137	27.05	19.25	-7.80	INT-137	12.89	19.25	6.36
INT-138	23.64	20.18	-3.46	INT-138	15.58	20.18	4.60
INT-139	23.78	19.97	-3.81	INT-139	17.04	19.97	2.93
INT-140	19.72	13.79	-5.93	INT-140	14.10	13.79	-0.31
INT-141	20.83	14.98	-5.85	INT-141	15.37	14.98	-0.39
INT-142	24.44	17.53	-6.91	INT-142	18.89	17.53	-1.16
INT-143	6.49	15.32	8.83	INT-143		15.32	NM
INT-144	18.04	16.06	-1.98	INT-144	16.05	16.06	0.01
INT-145	18.74	16.55	-2.19	INT-145	13.86	16.55	2.69
INT-146	18.72	16.54	-2.18	INT-146	13.68	16.54	2.86
P-5	12.60	15.11	2.51	P-5	9.56	15.11	5.55
P-6	14.31	18.34	4.03	P-6		18.34	NM
REI-03-2		12.47	NM	REI-03-2		12.47	NM
REI-03-3		13.14	NM	REI-03-3		13.14	NM
REI-03-4		13.99	NM	REI-03-4	71.49	13.99	-57.50
REI-7		13.38	NM	REI-7	70.87	13.38	-57.49
REI-10-2		14.15	NM	REI-10-2	4.38	14.15	9.79
REI-10-3	12.28	15.12	2.84	REI-10-3	7.00	15.12	8.12
REI-11		11.78	NM	REI-11	69.04	11.78	-57.26
REI-12-2	5.16	12.27	7.11	REI-12-2	4.32	12.27	7.95
REI-3-1		13.44	NM	REI-3-1	3.77	13.44	9.67
S1-050-P1	8.56	12.75	4.19	S1-050-P1		12.75	NM
S1-050-P2		12.05	NM	S1-050-P2	3.54	12.05	8.51
S1-050-P3	8.48	12.83	4.35	S1-050-P3	4.61	12.83	8.22
S1-051-P1	9.25	12.68	3.43	S1-051-P1		12.68	NM
S1-051-P2		12.91	NM	S1-051-P2		12.81	NM
S1-051-P3	8.56	12.20	3.84	S1-051-P3	5.41	12.20	8.79
S1-101	3.41	12.77	9.36	S1-101		12.77	NM
S1-102	12.67	15.64	2.97	S1-102	8.54	15.64	7.10
S1-103	12.93	15.04	2.11	S1-103	0.75	15.04	14.29
S1-104	5.14	12.98	7.84	S1-104	0.50	12.98	12.48

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**MONTHLY PROGRESS REPORT
Groundwater and Subsoil Remediation**

**French Ltd. Project
FLTG, Incorporated**

Table 4-9 (Continued)

Water Level Measurements 1/2/95 to 1/4/95				Water Level Measurements 5/28/95			
Well ID	DTW (ft)	TOC (ft MSL)	WL (ft MSL)	Well ID	DTW (ft)	TOC (ft MSL)	WL (ft MSL)
S1-105	1.92	11.69	9.97	S1-105	2.51	11.69	9.38
S1-106	5.88	13.87	8.09	S1-106	5.78	13.87	8.19
S1-107	4.85	14.44	9.78	S1-107	4.05	14.44	10.39
S1-108	4.27	12.58	8.31	S1-108	1.45	12.58	11.13
S1-109	5.56	12.51	6.95	S1-109	2.20	12.51	10.31
S1-110	8.24	11.77	3.53	S1-110	4.68	11.77	7.09
S1-111	3.69	12.39	8.70	S1-111	3.29	12.39	9.10
S1-112	8.86	12.53	5.67	S1-112	2.59	12.53	9.94
S1-113	2.99	12.12	9.13	S1-113	1.81	12.12	10.51
S1-114	6.79	15.02	8.23	S1-114	5.85	15.02	9.17
S1-115	4.34	13.27	8.93	S1-115	3.77	13.27	9.50
S1-116	8.08	15.37	9.29	S1-116	5.35	15.37	10.02
S1-117	11.42	21.48	10.06	S1-117	11.12	21.48	10.36
S1-118		18.99	NM	S1-118	7.44	18.99	11.55
S1-119		5.34	NM	S1-119	7.50	5.34	-2.18
S1-120		6.21	NM	S1-120	12.10	6.21	-5.89
S1-121		6.13	NM	S1-121	12.01	6.13	-5.88
S1-122		3.59	NM	S1-122	8.71	3.59	-5.12
S1-123		10.70	NM	S1-123	8.39	10.70	2.31
S1-124		5.58	NM	S1-124	4.32	5.58	1.26
S1-125		5.24	NM	S1-125	2.86	5.24	2.58
S1-126		5.43	NM	S1-126	4.37	5.43	1.12
S1-127		4.88	NM	S1-127	2.44	4.88	2.44
S1-128		5.12	NM	S1-128	4.30	5.12	0.82
S1-129		5.44	NM	S1-129	3.61	5.44	1.83
S1-130		5.85	NM	S1-130	0.82	5.85	5.03
S1-131		5.47	NM	S1-131	4.77	5.47	0.70
S1-132		4.49	NM	S1-132	0.92	4.49	3.57
S1-133		5.26	NM	S1-133		5.26	NM
S1-134		5.98	NM	S1-134	0.01	5.98	5.97
S1-135	5.45	18.02	12.57	S1-135	5.53	18.02	12.49
S1-137	6.87	19.10	12.23	S1-137	8.98	19.10	12.12
S2-101	72.22	16.53	-55.89	S2-101	71.47	16.53	-54.94
SG-1		9.98	NM	SG-1		9.98	NM
SG2 (Cell D)				SG2 (Cell D)	3.36		
SG-3		1.27	NM	SG-3	7.40	1.27	-6.13
SG4 (E Pond)				SG4 (E Pond)			
SG-5	9.58	5.33	-4.25	SG-5	10.52	5.33	-5.19
W-3	20.23	18.53	-1.70	W-3	17.25	18.53	1.28
W-4	20.94	18.51	-2.43	W-4		18.51	NM
W-5	22.06	18.51	-3.55	W-5		18.51	NM
W-7	20.04	18.34	-1.70	W-7	10.61	18.34	7.73

TOC (top of casing) based on latest survey data.
Survey records are in AHA database.

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MONTHLY PROGRESS REPORT
Groundwater Treatment Plant

French Ltd. Project
FLTG, Incorporated

5.0 GROUNDWATER TREATMENT PLANT

5.1 Summary of Activities

In May, operations concentrated on adjusting operating conditions to compensate for lower flows.

As reported last month, there were two elevated total suspended solids values reported in April. The average reached 5.2 mg/L before the sand filters were adjusted to achieve maximum backwash capacity. This condition has been corrected and TSS levels are at non-detect at the end of the month.

The standard for discharge from the treatment plant had required sampling the waste stream two times per week based on a 400 gpm discharge. FLTG reduced this frequency to once per week based on flows of less than 200 gpm average.

There have been no other issues except for the usual preventive maintenance with no major mechanical failure in May.

Total flows for May, 1995:

Water discharged to the San Jacinto River - 4,676,800 gallons

Water discharged to the Lagoon - 0

Sludge discharged to the Lagoon - 29,275 gallons

Water processed through the GWT - 5,523,500 gallons

Water discharged to the South Pond - 0

Water blended passed Carbon Filter - 4,390,800 gallons

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MONTHLY PROGRESS REPORT
Groundwater Treatment Plant

French Ltd. Project
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Water processed from Cell D to GWT plant: metered - 0

Cell D injection at S1-1 through S1-9: metered - 88,900 gallons

5.2 Inoculum/Nutrient Addition

The following have been introduced into the bioreactors/clarifier:

Nutrients:

310 gallons Diammonium Phosphate

Microbes:

16 oz. French Limited Isolated Microbes

Coagulant:

- 6.0 gallons Percol 778 Cationic Polymer

5.3 Maintenance

Table 5-1 lists the preventive maintenance items performed in May.

5.4 Operating Data

Table 5-2 summarizes the laboratory analysis of the treated water discharged to the San Jacinto River.

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MONTHLY PROGRESS REPORT
Groundwater Treatment Plant

French Ltd. Project
FLTG, Incorporated

TABLE 5-1
Preventive Maintenance

Day	Action
May 5	Completed safety inspection of all electrical tools and extension cords.
May 9	Lubed and exercised all valves in GWT.
May 10	Lubed all "Red" valves.
May 11	Lubed blowers 1, 2, and 3.
May 12	Replaced filters in central filter.
May 15	Rotated SALA pumps.
May 17	Lubed pumps in GWT, T-101 area, and chemical storage.
May 19	Lubed all gate rollers.
May 26	Replaced filters in central filter.

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Groundwater Treatment Plant

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TABLE 5-2
Treated Water Results Summary

Collected	Set No.	pH		TSS		TOC		OgG		Benzene		Chlor HC's		Total PCBs		Naphthalene	
		(6-9)		5 PPM		55 PPM		15 PPM		150 PPB		500 PPB		0.65 PPB		300 PPB	
		Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg
2-Jan-95	M03A0296	7.78		4.		12.9		2.5		5.		275.		.16		5.	
5-Jan-95	M03A0297	7.81		5.		19.		2.5		6.		249.		.16		5.	
9-Jan-95	M03A0298	7.8		7.		9.8		2.5		2.5		124.		.16		5.	
12-Jan-95	M03A0299	7.77		2.		9.8		2.5		2.5		200.		.16		5.	
16-Jan-95	M03A0300	7.61		4.		18.3		2.5		6.		393.		.16		5.	
19-Jan-95	M03A0301	7.44		2.		19.8		2.5		5.		454.		.16		5.	
23-Jan-95	M03A0302	7.82		9.		25.5		2.5		6.		192.		.16		5.	
26-Jan-95	M03A0303	7.66		.5		20.5		2.5		6.		234.		.16		5.	
30-Jan-95	M03A0304	7.15	7.8	4.	4.2	44.3	21.1	2.5	2.5	25.	7.1	2325.	494	.16	.16	5.	5.
2-Feb-95	M03A0305	7.28	7.8	.5	3.8	11.7	21.	2.5	2.5	6.	7.2	613.	632	.16	.16	5.	5.
6-Feb-95	M03A0306	7.55	7.8	1.	3.3	11.7	20.2	2.5	2.5	5.	7.1	411.	550	.16	.16	5.	5.
9-Feb-95	M03A0307	7.52	7.5	.5	3.1	8.8	20.	2.5	2.5	5.	7.4	226.	561	.16	.16	5.	5.
13-Feb-95	M03A0308	7.5	7.5	22.	5.3	9.7	20.	2.5	2.5	5.	7.7	349.	578	.16	.16	5.	5.
16-Feb-95	M03A0309	7.33	7.5	.5	4.9	5.2	18.6	2.5	2.5	5.	7.6	276.	565	.16	.16	5.	5.
20-Feb-95	M03A0310	7.37	7.5	6.	5.4	5.8	17.	2.5	2.5	4.	7.4	193.	536	.16	.16	5.	5.
23-Feb-95	M03A0311	7.29	7.4	1.	4.5	1.	13.2	2.5	2.5	2.5	7.1	60.	521	.16	.16	5.	5.
27-Feb-95	M03A0312	7.46	7.4	3.	4.8	9.5	12.	2.5	2.5	2.5	6.7	164.	513	.16	.16	5.	5.
2-Mar-95	M03A0313	7.47	7.4	.5	4.4	8.5	8.	2.5	2.5	2.5	4.2	145.	271	.16	.16	5.	5.
6-Mar-95	M03A0314	7.49	7.4	1.	4.4	8.1	7.6	2.5	2.5	2.5	3.8	128.	217	.16	.16	5.	5.
9-Mar-95	M03A0315	7.38	7.4	1.	4.4	8.	7.2	2.5	2.5	2.5	3.5	193.	193	.16	.16	5.	5.
13-Mar-95	M03A0316	7.64	7.4	5.	4.4	7.2	7.	2.5	2.5	2.5	3.22	111.	180	.16	.16	5.	5.
16-Mar-95	M03A0317	7.55	7.4	.5	2.1	6.	6.6	2.5	2.5	2.5	2.9	150.	158	.16	.16	5.	5.
20-Mar-95	M03A0318	7.41	7.5	.5	2.1	6.6	6.7	2.5	2.5	2.5	2.7	97.	138	.16	.16	5.	5.
23-Mar-95	M03A0319	7.45	7.5	1.	1.5	6.	6.8	2.5	2.5	2.5	2.5	185.	137.	.16	.16	5.	5.
27-Mar-95	M03A0320	7.83	7.5	3.	1.7	12.2	8.	2.5	2.5	6.	2.9	325.	186	.16	.16	5.	5.
30-Mar-95	M03A0321	7.47	7.5	7.	2.2	11.6	8.3	2.5	2.5	6.	3.3	342.	186	.16	.16	5.	5.
3-Apr-95	M03A0322	7.42	7.5	1.	2.2	11.7	8.6	2.5	2.5	6.	3.7	269.	200	.16	.16	5.	5.
6-Apr-95	M03A0323	7.45	7.5	2.	2.3	12.2	9.1	2.5	2.5	6.	4.1	239.	212	.16	.16	5.	5.
10-Apr-95	M03A0324	7.38	7.5	2.	2.4	11.1	9.4	2.5	2.5	6.	4.4	230.	216	.16	.16	5.	5.
13-Apr-95	M03A0325	7.62	7.5	3.	2.2	12.9	10.1	2.5	2.5	6.	4.8	364.	245	.16	.16	5.	5.
17-Apr-95	M03A0326	7.59	7.5	11.	3.4	12.9	10.8	2.5	2.5	6.	5.2	247.	255	.16	.16	5.	5.
20-Apr-95	M03A0327	7.75	7.6	1.	3.4	12.1	11.4	2.5	2.5	6.	5.6	226.	270	.16	.16	5.	5.
24-Apr-95	M03A0328	7.67	7.6	13.	4.8	13.	12.2	2.5	2.5	6.	6.	269.	279.	.16	.16	5.	5.
27-Apr-95	M03A0329	7.51	7.5	1.	4.6	12.2	12.2	2.5	2.5	2.5	5.6	236.	269	.16	.16	5.	5.
1-May-95	M03A0330	7.63	7.6	1.	3.9	12.1	12.2	2.5	2.5	5.2	177.	251	.16	.16	5.	5.	
4-May-95	M03A0331	7.91	7.61	4.	4.2	12.5	12.3	2.5	2.5	4.8	222.	246	.16	.16	5.	5.	
8-May-95	M03A0332	7.95	7.67	4.	4.4	11.3	12.2	2.5	2.5	2.5	4.4	228.	244	.16	.16	5.	5.
11-May-95	M03A0334	7.97	7.73	4.	4.7	10.9	12.21	2.5	2.5	2.5	4.1	235.	245	.16	.16	5.	5.
15-May-95	M03A0333	7.87	7.76	8.	5.2	13.7	12.3	2.5	2.5	2.5	3.7	209.	228	.16	.16	5.	5.
18-May-95	M03A0335	7.73	7.78	6.	4.7	11.	12.1	2.5	2.5	6.	3.7	374.	242	.16	.16	5.	5.
22-May-95	M03A0336	7.88	7.79	1.	4.7	31.	14.2	2.5	2.5	6.	3.7	274.	247	.16	.16	5.	5.
29-May-95	M03A0337	7.76	7.8	1.	3.3	45.	17.7	2.5	2.5	6.	3.7	227.	242	.16	.16	5.	5.
5-Jun-95	M03A0338	7.53															

Chlorinated hydrocarbons value is the sum of detected concentrations of 21 volatile chlorinated hydrocarbons on target compound list.

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MONTHLY PROGRESS REPORT
Groundwater Treatment Plant

French Ltd. Project
FLTG, Incorporated

TABLE 5-2 (Continued)
Treated Water Results Summary

Collected	Set No.	As		Bb		Cd		Cr		Cu		Pb		Mn		Hg		Ni		Se		Ag		Zn		
		150 PPB		1000 PPB		50 PPB		500 PPB		15 PPB		66 PPB		300 PPB		1 PPB		148 PPB		20 PPB		5 PPB		162 PPB		
		Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	Daily	R-Avg	
2-Jan-95	M03A0296	9.9		172.	.1			2.1		1.6		.5		18.		.1		1.		1.2		.2		7.		
5-Jan-95	M03A0297	14.		151.	.1			.3		2.		.5		57.		.1		6.		1.2		.2		20.		
9-Jan-95	M03A0298	12.		171.	.1			.9		3.		.5		23.		.1		4.		1.3		.2		7.		
12-Jan-95	M03A0299	16.		143.	.1			.2		2.		.5		2.		.1		2.		1.3		.2		3.		
16-Jan-95	M03A0300	12.		146.	.1			.6		3.		.5		1.		.1		3.		1.3		.2		6.		
19-Jan-95	M03A0301	18.		135.	.1			.4		2.		.5		2.		.1		4.		1.3		.2		18.		
23-Jan-95	M03A0302	12.		140.	.1			.2		2.		.5		3.		.1		6.		1.3		.2		16.		
26-Jan-95	M03A0303	16.		148.	.1			.2		2.		.5		2.		.1		2.		1.3		.2		12.		
30-Jan-95	M03A0304	9.		238.	.1			.2		2.		.5		43.		.1		3.		1.3		.2		5.		
2-Feb-95	M03A0305	10.	13.2	192.	163	.1	.1	.1	.7	2.	2.2	.5	.5	15.	16.4	.1	.1	4.	3.8	1.3	1.2	.2	.2	8.	10.6	
6-Feb-95	M03A0306	11.	12.9	188.	167	.1	.1	.2	.4	1.	2.1	.5	.5	4.	10.6	.1	.1	2.	3.3	1.3	1.3	.2	.2	5.	8.9	
9-Feb-95	M03A0307	16.	13.3	195.	169	.1	.1	.2	.3	4.	2.2	.5	.5	6.	8.7	.1	.1	6.	3.6	1.3	1.3	.2	.2	11.	9.3	
13-Feb-95	M03A0308	13.	13.	184.	174	.1	.1	.2	.5	1.	2.1	.5	.5	15.	10.1	.1	.1	5.	3.9	1.3	1.3	.2	.2	8.	9.9	
16-Feb-95	M03A0309	12.	13.	184.	178	.1	.1	.2	.5	1.	1.9	.5	.5	6.	10.7	.1	.1	6.	4.2	1.3	1.3	.2	.2	7.	10.	
20-Feb-95	M03A0310	14.	12.6	191.	184	.1	.1	.2	.7	2.	1.9	.5	.5	27.	13.4	.1	.1	8.	4.7	1.3	1.3	.2	.2	6.	8.7	
23-Feb-95	M03A0311	13.	12.7	165.	187	.1	.1	.1	.8	2.	1.8	.5	.5	3.	13.4	.1	.1	8.	4.9	1.3	1.3	.2	.2	9.	7.9	
27-Feb-95	M03A0312	22.	13.3	144.	187	.1	.1	4.6	1.2	3.	2.	.5	.5	3.	13.6	.1	.1	12.	6.	1.3	1.3	.5	.2	2.5	6.8	
2-Mar-95	M03A0313	23.	14.9	133.	175	.1	.1	2.	1.4	1.	1.9	.5	.5	15.	10.4	.1	.1	8.	6.6	1.3	1.3	.5	.2	6.	6.9	
6-Mar-95	M03A0314	17.	15.7	130.	168	.1	.2	1.	1.4	3.	2.	2.2	.7	3.	9.1	.1	.1	2.5	8.4	.5	1.2	.8	.3	8.	6.9	
9-Mar-95	M03A0315	24.	17.1	111.	160	.1	.2	.2	1.4	.8	2.	.5	.7	4.	9.1	.1	.1	4.	6.6	1.3	1.2	.2	.3	6.	7.1	
13-Mar-95	M03A0316	17.	17.2	121.	151	.1	.2	.2	1.4	1.	1.6	.5	.7	41.	13.	.1	.1	3.	6.3	1.3	1.2	.2	.3	5.	6.4	
16-Mar-95	M03A0317	23.	18.3	114.	144	.1	.2	.3	1.3	3.	1.9	.5	.7	2.	11.6	.1	.1	3.	6.1	1.3	1.2	.2	.3	11.	6.7	
20-Mar-95	M03A0318	18.	19.	112.	136	.1	.2	.2	1.3	3.	2.1	.5	.7	2.	11.1	.1	.1	2.	5.6	1.3	1.2	.2	.3	3.	6.3	
23-Mar-95	M03A0319	19.	19.6	119.	128	.1	.2	.2	1.	2.	2.1	.5	.7	2.	8.3	.1	.1	3.	5.1	1.3	1.2	.2	.3	4.	6.1	
27-Mar-95	M03A0320	14.	19.7	130.	124	.1	.2	3.	1.3	2.	2.1	.5	.7	22.	10.4	.1	.1	5.	4.7	1.3	1.2	.2	.3	8.	10.1	
30-Mar-95	M03A0321	19.	19.3	132.	122	.1	.2	2.	1.	2.	2.	.5	.7	25.	12.9	.1	.1	6.	4.1	1.3	1.2	.2	.2	15.	11.1	
3-Apr-95	M03A0322	17.	18.7	127.	122	.1	.2	.2	.8	2.	2.1	.5	.7	9.	12.2	.1	.1	1.	3.3	1.3	1.2	.2	.2	4.	10.7	
6-Apr-95	M03A0323	23.	19.3	102.	119	.1	.1	.2	.7	1.	1.9	.5	.5	4.	12.3	.1	.1	1.	3.1	1.3	1.3	.2	.2	8.	10.9	
10-Apr-95	M03A0324	12.	18.	157.	124	.1	.1	.2	.8	2.	2.	.2	.7	32.	15.4	.1	.1	4.	3.1	1.3	1.3	.2	.2	3.	10.7	
13-Apr-95	M03A0325	44.	21.	107.	122	.1	.1	1.	1.	2.	2.1	.5	.7	11.	12.1	.1	.1	6.	3.4	1.3	1.3	.2	.2	17.	11.3	
17-Apr-95	M03A0326	28.	21.3	171.	129	.1	.1	14.	2.5	2.	2.	1.	.7	108.	23.9	.1	.1	14.	4.7	1.3	1.3	.2	.2	34.	14.8	
20-Apr-95	M03A0327	24.	22.	129.	130	.7	.2	7.	3.3	9.	2.7	.2	.8	43.	28.4	.1	.1	10.	5.6	1.3	1.3	.2	.2	4.	14.8	
24-Apr-95	M03A0328	21.	22.	115.	130	.1	.2	7.	4.	1.	2.6	.5	.5	38.	32.4	.1	.1	6.	5.9	1.3	1.3	.2	.2	4.	14.8	
27-Apr-95	M03A0329	24.	23.3	110.	128	.1	.2	2.	3.9	2.	2.6	.5	.5	9.	12.	31.3	.1	.1	7.	6.1	1.3	1.3	.2	.2	9.	11.3
1-May-95	M03A0330	16.8	23.1	106.	125	1.1	.3	.7	3.8	.7	2.4	.5	.5	6.8	29.3	.1	.1	8.5	8.4	.8	1.2	.5	.2	.2	10.5	
4-May-95	M03A0331	21.	23.6	149.	127	1.1	.4	5.9	4.4	1.	2.3	.5	.5	9.	70.4	36.1	.1	.1	7.6	7.1	.8	1.2	.5	.2	16.2	10.6
8-May-95	M03A0332	16.	22.8	126.	130	.1	.4	1.	4.5	1.6	2.4	.5	.5	6.	36.4	.1	.1	5.	7.6	1.3	1.2	.2	.2	4.	10.6	
11-May-95	M03A0334	17.	23.3	158.	130	.1	.4	3.	4.6	.9	2.2	.5	.7	22.	35.2	.1	.1	6.	7.8	1.3	1.2	.2	.2	5.	10.3	
15-May-95	M03A0333	17.	20.3	141.	134	.1	.4	2.	4.7	1.	2.1	.5	.7	21.	36.4	.1	.1	5.	7.7	1.3	1.2	.2	.2	4.	10.4	
18-May-95	M03A0335	18.	19.4	122.	128	.1	.4	.2	3.2	.3	1.9	.5	.7	4.	24.8	.1	.1	3.	6.5	1.3	1.2	.2	.2	1.5	8.7	
22-May-95	M03A0336	14.	18.3	130.	129	.1	.3	1.	2.5	.5	1.	.5	.5	9.	21.	.1	.1	5.	5.9	1.3	1.2	.2	.2	7.	5.7	
29-May-95	M03A0337	16.	17.8	176.	135	.1	.3	2.	2.	.3	.9	.5	.5	27.	19.8	.1	.1	1.	5.3	2.8	1.3	.2	.2	4.	5.7	

Metals values in PPB.

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MONTHLY PROGRESS REPORT
Ambient Air ManagementFrench Ltd. Project
FLTG, Incorporated**6.0 AMBIENT AIR MANAGEMENT**

Ambient air quality management continued on an "as-needed" basis to protect the environment, human health, and site workers.

6.1 Summary of Activities

Collected and analyzed three time-integrated personnel exposure samples; the measured levels of volatile organic compounds were well below the action levels.

Sampled the ambient air in all work areas several times per shift and on a random "spot-check" basis; there were no levels of volatile organic compounds which required response action. Sampled ambient air in special work areas where burning and/or welding was planned. Sampled ambient air continuously in areas where exposure could occur and where confined space work occurred.

6.2 Problems and Response Action

<u>Problem</u>	<u>Response Action</u>
Calibrate portable vapor meters.	Train operators to calibrate; refurbish all meters.
Sampling "hot" wells.	Require respirator use when sampling "hot" wells.
Ambient air quality in all work areas.	Check all work areas with portable meter several times per day.
H ₂ S levels in some well vaults.	Vent vault and purge with air before working in the vaults.

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**MONTHLY PROGRESS REPORT
Ambient Air Management**

**French Ltd. Project
FLTG, Incorporated**

6.3 Problems Resolved

None.

6.4 On-going Events/Activities

Measure ambient air quality in all work areas several times per day.

Conduct periodic time-integrated sampling in all major work areas.

Require respiratory protection when sampling "hot" wells.

Conduct necessary air sampling and analyses to issue "burn" permits.

Closely monitor ambient air quality in the vicinity of new projects/activities.

Conduct respirator fit tests on all employees.

7.0 QUALITY ASSURANCE/QUALITY CONTROL

7.1 Summary of Activities

7.1.1 Sampling

One set of personal air monitoring samples were collected in May. The following is a summary of current routine and special air matrix code sample specifics:

MATRIX CODE	SAMPLE SPECIFICS
M01D	TF at three locations

TF = Tenax® front tube

Table 7-1 is a summary of the air, soil and water samples collected during the month of May. Table 7-2 is a summary of Scheduled Sampling Events for the month of May.

7.1.2 Data Validation Activities Summary

7.1.2.1 Treated Water Samples

Data validation was completed for sample sets M03A0324, M03A0325, M03A0326, M03A0327, M03A0328, M03A0329, M03A0330 and M03A0331. These samples were collected between April 10, 1995 and May 4, 1995. QC failures are summarized in Table 7-3. Completeness values are summarized in Tables 7-4 through 7-8.

7.1.2.2 Groundwater Samples

Level I data validation was completed for the monthly groundwater monitoring sample sets collected in early May. There were no significant QC failures found for the analytical data on these samples.

7.1.2.3 Other Samples

All other special sample sets were validated manually this period.

7.2 Data Validation QC Summary and Discussion

7.2.1 Level I and Level II QC Philosophy

The Quality Assurance Project Plan (QAPP) defines data validity in terms of procedural requirements which must be followed for data comparability, and numerical data quality objectives which must be met to assure precision and accuracy of the results. Precision, accuracy and completeness are the numerical Data Quality Objectives (DQOs) established for the French Project by the QAPP. The intent of the data validation process is to verify that the documentation and quality control data provided by the laboratory properly substantiate the required data quality.

For purposes of data validation procedures, the QAPP defines two QC levels: Level I and Level II. Level I data validation is specified for process control and progress monitoring sample data validation and Level II data validation is specified for remediation verification sample results and treated water discharge sample results.

7.2.2 QA Issues

7.2.2.1 Follow-up Laboratory Audit

On May 8, 1995, Ron Jansen of the French Ltd. Project performed a follow up audit of American Analytical and Technical Services (AATS-LA). The purpose of the audit was to determine if the responses to the issues raised in the EPA contractor audit performed in November 1994 had been adhered to and/or implemented as indicated. Although an overall lab audit was performed, special attention was given to the areas referenced in the EPA contractor audit to confirm that these issues had been properly addressed. All of the issues listed in the above referenced audit report were addressed appropriately by AATS.

The following are several observations made during the audit that need attention by laboratory management.

- An SOP needs to be formalized that describes the reagent and calibration standard tracking system employed by the lab. The system used is elaborate enough to warrant written instructions.
- The mercury analysis log book had several instances where a line was drawn down a column to designate that the same amount/volume of reagent or sample was measured. The actual measurement should be written in the log book.
- The metals analysis laboratory often uses dilution to remove interferences. This issue should be addressed formally in the QAP or by an appropriate SOP.

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MONTHLY PROGRESS REPORT
Quality Assurance/Quality Control

French Ltd. Project
FLTG. Incorporated

TABLE 7-1

Samples Collected - May, 1995

Sample No.	Description	Location	Date Samp'd	Lab Rec'd	Data Rec'd	Lab
M01D005601	Personal air monitoring	WTP Operator	5/03	5/04	Y	A
M01D005602	Personal air monitoring	Well Maint.	5/03	5/04	Y	A
M01D005603	Personal air monitoring	Security	5/03	5/04	Y	A
M03A033001	Treated water discharge	CF Out	5/01	5/02	Y	A
M03A033101	Treated water discharge	CF Out	5/04	5/05	Y	A
M03A033201	Treated water discharge	CF Out	5/08	5/09	Y	A
M03A033301	Treated water discharge	CF Out	5/15	5/16	Y	A
M03A033401	Treated water discharge	CF Out	5/11	5/12	Y	A
M03A033501	Treated water discharge	CF Out	5/18	5/19	N	A
M03A033601	Treated water discharge	CF Out	5/22	5/23	N	A
M03A033701	Treated water discharge	CF Out	5/29	5/30	N	A
M04A003301	Monthly GW monitoring	INT-108	5/03	5/04	Y	A
M04A003302	Monthly GW monitoring	S1-113	5/03	5/04	Y	A
M04B003201	Monthly GW monitoring	INT-102	5/02	5/04	Y	A

Labs: A = American Analytical and Technical Services
N = North Water District Lab
K = Chester LabNet-Houston

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Quality Assurance/Quality Control

French Ltd. Project
FLTG. Incorporated

TABLE 7-1

Samples Collected - May, 1995

<u>Sample No.</u>	<u>Description</u>	<u>Location</u>	<u>Date Samp'd</u>	<u>Lab Rec'd</u>	<u>Data Rec'd</u>	<u>Lab</u>
M04B003202	Monthly GW monitoring	S1-121	5/02	5/04	Y	A
M04B003203	Monthly GW monitoring	S1-123	5/02	5/04	Y	A
M04B003204	Monthly GW monitoring	S1-128	5/02	5/04	Y	A
M04B003205	Monthly GW monitoring	S1-130	5/02	5/04	Y	A
M04B003206	Monthly GW monitoring	S1-131	5/02	5/04	Y	A
M04B003207	Monthly GW monitoring	S1-132	5/02	5/04	Y	A
M04B003208	Monthly GW monitoring	W-03	5/02	5/04	Y	A
M04B003301	Monthly GW monitoring	INT-101	5/03	5/04	Y	A
M04B003302	Monthly GW monitoring	INT-106	5/03	5/04	Y	A
M04B003303	Monthly GW monitoring	INT-111	5/03	5/04	Y	A
M04B003304	Monthly GW monitoring	INT-112	5/03	5/04	Y	A
M04B003305	Monthly GW monitoring	S1-106	5/03	5/04	Y	A
M04B003401	Monthly GW monitoring	ERT-022	5/04	5/05	Y	A
M04B003402	Monthly GW monitoring	FLTG-007	5/04	5/05	Y	A
M04B003403	Monthly GW monitoring	INT-104	5/04	5/05	Y	A
M04B003404	Monthly GW monitoring	INT-110	5/04	5/05	Y	A
M04B003405	Monthly GW monitoring	INT-115	5/04	5/05	Y	A
M04B003406	Monthly GW monitoring	REI-10-3	5/04	5/05	Y	A

Labs: A = American Analytical and Technical Services
N = North Water District Lab
K = Chester LabNet-Houston

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MONTHLY PROGRESS REPORT
Quality Assurance/Quality Control

French Ltd. Project
FLTG. Incorporated

TABLE 7-1

Samples Collected - May, 1995

<u>Sample No.</u>	<u>Description</u>	<u>Location</u>	<u>Date Samp'd</u>	<u>Lab Rec'd</u>	<u>Data Rec'd</u>	<u>Lab</u>
M04B003407	Monthly GW monitoring	S1-102	5/04	5/05	Y	A
M04B003408	Monthly GW monitoring	S1-109	5/04	5/05	Y	A
M04B003501	Monthly GW monitoring	INT-119	5/10	5/11	Y	A
M04B003502	Monthly GW monitoring	INT-123	5/10	5/11	Y	A
M04B003504	Monthly GW monitoring	INT-141	5/10	5/11	Y	A
M04B003505	Monthly GW monitoring	INT-144	5/10	5/11	Y	A
M04B003506	Monthly GW monitoring	REI-10-2	5/10	5/11	Y	A
M04B003507	Monthly GW monitoring	S1-050-P-2	5/10	5/11	Y	A
M04B003509	Monthly GW monitoring	S1-114	5/10	5/11	Y	A
M04B003510	Monthly GW monitoring	S1-120	5/10	5/11	Y	A
M04B003601	Monthly GW monitoring	INT-127	5/11	5/12	Y	A
M04B003602	Monthly GW monitoring	S1-063	5/11	5/12	Y	A
M04B003603	Monthly GW monitoring	S1-107	5/11	5/12	Y	A
M04B003604	Monthly GW monitoring	S1-127	5/11	5/12	Y	A
M04B003605	Monthly GW monitoring	S1-134	5/11	5/12	Y	A
M04B003701	Monthly GW monitoring	INT-106	5/29	5/30	N	A
M04B003702	Monthly GW monitoring	ERT-022	5/29	5/30	N	A

Labs: A = American Analytical and Technical Services
N = North Water District Lab
K = Chester LabNet-Houston

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MONTHLY PROGRESS REPORT
Quality Assurance/Quality Control

French Ltd. Project
FLTG. Incorporated

TABLE 7-1

Samples Collected - May, 1995

<u>Sample No.</u>	<u>Description</u>	<u>Location</u>	<u>Date Samp'd</u>	<u>Lab Rec'd</u>	<u>Data Rec'd</u>	<u>Lab</u>
M04B003703	Monthly GW monitoring	FLTG_007	5/29	5/30	N	A
M04B003704	Monthly GW monitoring	INT-127	5/29	5/30	N	A
M04B003705	Monthly GW monitoring	S1-123	5/29	5/30	N	A
M04B003706	Monthly GW monitoring	S1-113	5/29	5/30	N	A
M04B003801	Monthly GW monitoring	INT-112	5/30	5/31	N	A
M04B003802	Monthly GW monitoring	REI-10-3	5/30	5/31	N	A
M04B003803	Monthly GW monitoring	INT-104	5/30	5/31	N	A
M04B003804	Monthly GW monitoring	S1-106	5/30	5/31	N	A
M04B003805	Monthly GW monitoring	INT-101	5/30	5/31	N	A
M04B003901	Monthly GW monitoring	INT-111	5/31	6/01	N	A
M04B003902	Monthly GW monitoring	INT-115	5/31	6/01	N	A
M04C002501	Monthly GW monitoring	INT-108	5/04	5/05	Y	A
M04C002502	Monthly GW monitoring	S1-113	5/04	5/05	Y	A
M06C002701	Monthly process monitoring	T-101 Eff	5/03	5/04	Y	A
M06C002702	Monthly process monitoring	T-101 Inf	5/03	5/04	Y	A
M06C002703	Monthly process monitoring	R1	5/03	5/04	Y	A
M06C002704	Monthly process monitoring	R2	5/03	5/04	Y	A

Labs: A = American Analytical and Technical Services
N = North Water District Lab
K = Chester LabNet-Houston

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MONTHLY PROGRESS REPORT
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French Ltd. Project
FLTG. Incorporated

TABLE 7-1

Samples Collected - May, 1995

<u>Sample No.</u>	<u>Description</u>	<u>Location</u>	<u>Date Samp'd</u>	<u>Lab Rec'd</u>	<u>Data Rec'd</u>	<u>Lab</u>
M06C002705	Monthly process monitoring	Cell D Liqr	5/03	5/04	Y	A
S16F004401	Injection filter biological	Inj. Filter	5/30	5/30	N	N
S17A000801	Wetlands affected soils	SE Corner	5/11	5/12	Y	A
S17A000901	Wetlands affected soils	N Comp	5/24	5/25	N	A
S17A000902	Wetlands affected soils	S Comp	5/24	5/25	N	A
S17A001001	Wetlands affected soils	N Comp	5/24	5/24	N	K
S17A001002	Wetlands affected soils	S Comp	5/24	5/24	N	K

Labs: A = American Analytical and Technical Services
N = North Water District Lab
K = Chester LabNet-Houston

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TABLE 7-2

Scheduled Sampling Events
May, 1995

<u>Date Sampled</u>	<u>Set Number</u>	<u>Description</u>	<u>Schedule</u>
5/03/95	M04A0033	Groundwater monitoring	Monthly
5/02/95	M04B0032	Groundwater monitoring	Monthly
5/03/95	M04B0033	Groundwater monitoring	Monthly
5/04/95	M04B0034	Groundwater monitoring	Monthly
5/10/95	M04B0035	Groundwater monitoring	Monthly
5/11/95	M04B0036	Groundwater monitoring	Monthly
5/29/95	M04B0037	Groundwater monitoring	Monthly
5/30/95	M04B0038	Groundwater monitoring	Monthly
5/31/95	M04B0039	Groundwater monitoring	Monthly
5/04/95	M04C0025	Groundwater monitoring	Monthly
5/30/95	S16F0044	Injection water filters	Special
5/03/95	M01D0056	Personal air monitoring	Monthly
5/03/95	M06C0027	Process water monitoring	Monthly
5/01/95	M03A0330	Treated water discharge	Bi-weekly
5/04/95	M03A0331	Treated water discharge	Bi-weekly
5/08/95	M03A0332	Treated water discharge	Bi-weekly
5/15/95	M03A0333	Treated water discharge	Bi-weekly
5/11/95	M03A0334	Treated water discharge	Bi-weekly
5/18/95	M03A0335	Treated water discharge	Bi-weekly
5/22/95	M03A0336	Treated water discharge	Weekly
5/29/95	M03A0337	Treated water discharge	Weekly
5/11/95	S17A0008	Wetlands affected soils	Special
5/24/95	S17A0009	Wetlands affected soils	Special
5/24/95	S17A0010	Wetlands affected soils	Special

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TABLE 7-3**Treated Water QC Failure Summary**

Sample Date	Test	QC Failure	Explanation	Corrective Action
04/10/95	SV	Su Recov.	Surrogate Tribromophenol was outside QC limits on sample -01.	None required - 1 base/neutral and 1 acid surrogate are allowed to be outside QC limits. Matrix effect is indicated.
04/10/95 04/13/95	Ba	ICP Serial Dilution	ICP serial dilution indicated interference.	None required - LCS, Dup and Spike were within QC limits.
04/10/95 04/13/95	Mn	ICP Serial Dilution	ICP serial dilution indicated interference.	None required - LCS, and Spike were within QC limits.
04/10/95 04/13/95	Mn	Duplicate Precision	Duplicate precision was outside control limits.	None required - LCS, and Spike were within QC limits.
04/13/95	Hg	Spike Accuracy	Spike accuracy % recovery was outside control limits.	None required - LCS and Dup were within QC limits.
04/17/95	VOA	Spike Precision	Spike precision RPD on Trichloroethene was outside QC limits.	None required - FLTG QAP only specifies accuracy and precision control limits for vinyl chloride and benzene. Required compounds were within control limits.
04/17/95	SV	Spike Precision and Accuracy	Spike precision and accuracy values were outside control limits for several compounds of MS/MSD pair.	None required - FLTG QAP only specifies accuracy and precision control limits for Naphthalene. Required compound was within control limits.
04/17/95 04/20/95	Ba	ICP Serial Dilution	ICP serial dilution indicated interference.	None required - LCS, Dup and Spike were within QC limits.
04/17/95 04/20/95	Mn	ICP Serial Dilution	ICP serial dilution indicated interference.	None required - LCS and Spike were within QC limits.
04/17/95 04/20/95	Mn	Duplicate Precision	Duplicate precision was outside control limits.	None required - LCS, and Spike were within QC limits.
04/17/95 04/20/95	Zn	Duplicate Precision	Duplicate precision was outside control limits.	None required - LCS, and Spike were within QC limits.
04/27/95	SV	Su Recov.	Surrogate Tribromophenol was outside QC limits on sample -01.	None required - 1 base/neutral and 1 acid surrogate are allowed to be outside QC limits. Matrix effect is indicated.
04/27/95	Ba	ICP Serial Dilution	ICP serial dilution indicated interference.	None required - LCS, Dup and Spike were within QC limits.

7.2.3 Completeness Summaries

Tables 7-4 through 7-8 summarize completeness values for VOA, SVA, PCBs, Metals and miscellaneous parameters on treated water samples.

/

VOA (Table 7-4)

A total of 8 VOA sample sets have been validated with all categories meeting Project Completeness Goals.

SVA (Table 7-5)

A total of 8 SVA sample sets have been validated for this time period. All categories meet or exceed Project Completeness Goals with the exception of sample matrix effect. This is due to matrix effect failures in the early stages of the project and the MS/MSD accuracy failures that occurred during September and October 1994.

PCBs (Table 7-6)

A total of 8 PCB sample sets have been validated for this time period with all samples, meeting data quality objectives. All categories meet or exceed Project Completeness Goals.

Metals (Table 7-7)

A total of 8 sample sets have been validated for this time period. Project Completeness Goals are met or exceeded in all categories.

Miscellaneous Parameters (Table 7-8)

A total of 8 sample sets have been validated for this time period. Project completeness goals are met or exceeded in all categories.

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TABLE 7-4

Completeness Summary
M03A Treated Water
Volatile Organics Analyses

SAMPLE DATE SET NUMBER	M03A0324 thru M03A0331	Project to Date	PROJECT GOAL
Analysis Holding Time 12 Hour Window	100 100	100 100	100 100
SU Check	100	94	90
SU1 (d4-1,2-DCE)	100	97	90
SU2 (d8-Toluene)	100	98	90
SU3 (4-BFB)	100	99	90
IS Check	100	100	90
IS1 (BrClMethane)	100	100	90
IS2 (1,4-DiFIBenzene)	100	100	90
IS3(d5-ClBenzene)	100	100	90
Sample RT/RRT Check	100	*	
Vinyl Chloride			
Accuracy	100	99	90
Precision	100	99	90
Benzene			
Accuracy	100	99	90
Precision	100	100	90
No Group Matrix Effect	100	*	90
No Sample Matrix Effect	100	*	90
Tune Check	100	*	
Overall ICAL Check	100	*	
Overall CCAL Check	100	*	
Overall Lab Blank Check	100	*	

* - Level II QC checks were performed on 10% of samples prior to 6/14/93.
 PTD completeness values do not apply to these checks.

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Quality Assurance/Quality Control

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FLTG. Incorporated

TABLE 7-5

Completeness Summary
M03A Treated Water
Semivolatile Organic Analyses

SAMPLE DATE SET NUMBER	M03A0324 thru M03A0331	Project to Date	PROJECT GOAL
Extract Holding Time	100	100	100
Analysis Holding Time	100	100	100
12 Hour Window	100	100	100
SU Check	100	95	90
SU1 (2-FIPhenol)	100	95	90
SU2 (d5-Phenol)	100	94	90
SU3 (d5-Nitrobenz)	100	96	90
SU4(2-FIBiphenyl)	100	98	90
SU5(2,4,6-TBPh)	100	94	90
SU6(d14-Terphen)	75	94	90
IS Check	100	98	90
IS1 (d4-1,4-DiClBenz)	100	100	90
IS2 (d8-Naph)	100	100	90
IS3 (d10-Acenaph)	100	100	90
IS4 (d10-Phenanth)	100	100	90
IS5 (d12-Chrysene)	90	97	90
IS6 (d12-Perylene)	100	96	90
Sample RT/RRT	100	*	*
Naphthalene			
Accuracy	100	96	90
Precision	100	99	90
No Group Matrix Effect	100	99	90
No Sample Matrix Effect	100	89	90
Tune Check	100	*	*
Overall ICAL Check	100	*	*
Overall CCAL Check	100	*	*
Overall Lab Blank Check	100	*	*

* - Level II QC checks were performed on 10% of samples prior to 6/14/93.
PTD completeness values do not apply to these checks.

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Quality Assurance/Quality Control

French Ltd. Project
FLTG. Incorporated

TABLE 7-6

Completeness Summary
M03A Treated Water
PCB Analyses

SAMPLE DATE SET NUMBER	M03A0324 thru M03A0331	Project to Date	PROJECT GOAL
Extract Holding Time	100	100	100
Analysis Holding Time	100	100	100
12 Hour Window	100	100	100
SU Check - Column A	100	99	90
SU1 (DCBP)	100	88	NS
SU2 (TCMX)	100	97	NS
SU Check - Column B	100	98	90
SU1 (DCBP)	100	87	NS
SU2 (TCMX)	100	97	NS
SU Check - Column A or B	100	98	90
Aroclor 1242			
Accuracy	100	99	90
Precision	100	97	90
Overall ICAL Check	100	*	
Overall 1st CCAL Check	100	*	
Overall 2nd CCAL Check	100	*	
Overall Lab Blank Check	100	*	

* - Level II QC checks were performed on 10% of samples prior to 6/14/93.
PTD completeness values do not apply to these checks.

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MONTHLY PROGRESS REPORT
Quality Assurance/Quality Control

French Ltd. Project
FLTG. Incorporated

TABLE 7-7

Completeness Summary
M03A Treated Water
Metals Analyses

SAMPLE DATE SET NUMBER	M03A0324 thru M03A0331	PROJECT GOAL
---------------------------	---------------------------	--------------

ANALYTE: BARIUM

MS Accuracy	100	95
DUP Precision/Difference	100	95
No Matrix Interference*	100	NA
Prep Blank Check	100	100
Lab Control Spike Check	100	100

ANALYTE: CADMIUM

MS Accuracy	100	95
DUP Precision/Difference	100	95
No Matrix Interference*	100	NA
Prep Blank Check	100	100
Lab Control Spike Check	100	100

ANALYTE: CHROMIUM

MS Accuracy	100	95
DUP Precision/Difference	100	95
No Matrix Interference*	100	NA
Prep Blank Check	100	100
Lab Control Spike Check	100	100

ANALYTE: COPPER

MS Accuracy	100	95
DUP Precision/Difference	100	95
No Matrix Interference*	100	NA
Prep Blank Check	100	100
Lab Control Spike Check	100	100

ANALYTE: LEAD

MS Accuracy	100	95
DUP Precision/Difference	100	95
No Matrix Interference*	100	NA
Prep Blank Check	100	100
Lab Control Spike Check	100	100

W - All samples waived due to low response

* Matrix interference is indicated by:

Furnace analyses - failure of analytical spike or low MSA coefficient
ICP analyses - failure of serial dilution

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TABLE 7-7 (Continued)

Completeness Summary
M03A Treated Water
Metals Analyses

SAMPLE DATE SET NUMBER	M03A0324 thru M03A0331	PROJECT GOAL
---------------------------	---------------------------	--------------

ANALYTE: MANGANESE

MS Accuracy	100	95
DUP Precision/Difference	75	95
No Matrix Interference*	100	NA
Prep Blank Check	100	100
Lab Control Spike Check	100	100

ANALYTE: NICKEL

MS Accuracy	100	95
DUP Precision/Difference	100	95
No Matrix Interference*	100	NA
Prep Blank Check	100	100
Lab Control Spike Check	100	100

ANALYTE: SILVER

MS Accuracy	100	95
DUP Precision/Difference	100	95
No Matrix Interference*	100	NA
Prep Blank Check	100	100
Lab Control Spike Check	100	100

ANALYTE: ZINC

MS Accuracy	100	95
DUP Precision/Difference	75	95
No Matrix Interference*	100	NA
Prep Blank Check	100	100
Lab Control Spike Check	100	100

ANALYTE: MERCURY

MS Accuracy	88	95
DUP Precision/Difference	100	95
No Matrix Interference*	100	NA
Prep Blank Check	100	100
Lab Control Spike Check	100	100

W - All samples waived due to low response

* Matrix interference is indicated by:

Furnace analyses - failure of analytical spike or low MSA coefficient
ICP analyses - failure of serial dilution

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Quality Assurance/Quality Control

French Ltd. Project
FLTG. Incorporated

TABLE 7-7 (Continued)

Completeness Summary
M03A Treated Water
Metals Analyses

SAMPLE DATE SET NUMBER	M03A0324 thru M03A0331	PROJECT GOAL
---------------------------	---------------------------	--------------

ANALYTE: ARSENIC

MS Accuracy	100	95
DUP Precision/Difference	100	95
No Matrix Interference*	100	NA
Prep Blank Check	100	100
Lab Control Spike Check	100	100

ANALYTE: SELENIUM

MS Accuracy	100	95
DUP Precision/Difference	100	95
No Matrix Interference*	100	NA
Prep Blank Check	100	100
Lab Control Spike Check	100	100

W - All samples waived due to low response

* Matrix interference is indicated by:

Furnace analyses - failure of analytical spike or low MSA coefficient
ICP analyses - failure of serial dilution

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Quality Assurance/Quality Control

French Ltd. Project
FLTG. Incorporated

TABLE 7-8

Completeness Summary
M03A Treated Water
Miscellaneous Parameters Analyses

SAMPLE DATE SET NUMBER	M03A0324 thru M03A0331	Project to Date	PROJECT GOAL
PARAMETER: TOC			
Analysis Hold Time	100	100	100
MS Accuracy	100	100	NA
DUP Precision	100	100	NA
PARAMETER: OILS			
Analysis Hold Time	100	100	100
MS Accuracy	100	100	NA
DUP Precision	100	100	NA
PARAMETER: TSS			
Analysis Hold Time	100	100	100
MS Accuracy	NA	NA	NA
DUP Precision	100	100	NA

**MONTHLY PROGRESS REPORT
Site Maintenance****French Ltd. Project
FLTG, Incorporated****8.0 SITE MAINTENANCE****8.1 Summary of Activities****8.1.1 General Housekeeping**

The site safety and housekeeping inspections and responses kept grounds safe and attractive for employees and visitors.

8.1.2 Purchasing

All purchases were covered by written requisitions and purchase orders. Purchase of chemicals is now reduced to groundwater treatment and insitu remediation.

A work release was issued to Layne Environmental Drilling to re-develop 3 production wells.

8.1.3 Equipment Maintenance

Routine preventive and production maintenance was performed on all equipment.

8.2 Visitors

The following visitors were recorded at the site during May:

May 4: Dick Woodward

May 5: Amy Lange, CH2M Hill
John Glass, CH2M Hill
James Sher, TNRCC
Margaret O'Hare, CH2M Hill
Judith Black, EPA

May 10: Lois Shmidl, American Diabetes Assn.

MONTHLY PROGRESS REPORT
Site Maintenance

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Ricky Creel, NAJ
J. Kirsch, Texas Trees

May 11: C.E. Bonney, ARCO

May 12: Amy Lange, CH2M Hill
(b) (6) local resident

May 22: Jeff and Judy Allen, OCO
Alan Atkinson
Glen and Kathy Warm, AIK

May 24: Charles Bonney, ARCO
Carol Davis, Phillips
Carl Everett, SERS
Walt Simmons, ARCO
John Faulhaber, ARCO

8.3 Emergency Equipment

8.3.1 Flood Gate Test

The flood gate was exercised on May 15, 1995, with no leaks detected.

8.3.2 P-8 Auxiliary Pump

P-8 Auxiliary Pump has been converted to the lagoon ground cover vegetation sprinkler source. It has operated approximately 80 hours in May.

8.3.3 Fire Extinguishers

All fire extinguishers were inspected and certified.

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**MONTHLY PROGRESS REPORT
Site Maintenance**

**French Ltd. Project
FLTG, Incorporated**

8.4 Security

Smith Security provides 24-hour security at the FLTG site, including the south side of Gulf Pump Road; all site areas are checked hourly. No incidents reported by Security in May.

8.5 Operator Training

All training is documented and records are maintained on site.

8.6 Data Management

Data base is fully operational. Data is entered on a daily basis.

8.7 Personnel Monitoring

Results of personnel monitoring conducted during May are included in Table 8-1.

8.8 OVM System

Work areas are being monitored daily with Organic Vapor Monitor 580A.

8.9 Repository

Records from the May review are listed in Attachment 8A.

8.10 Meteorological Data

The meteorological data is generated on a weekly basis.

Rainfall data is listed in Table 8-2.

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MONTHLY PROGRESS REPORT
Site Maintenance

French Ltd. Project
FLTG, Incorporated

TABLE 8-1

On-Site Employee Contaminant Limits
(From OSHA 29 CFR 1910 Subpart Z)

Compound	PEL 8 hour PPM	1 3-May-95 Wells (S.R.)		2 3-May-95 (sample data not usable)		3 3-May-95 Security (R.L.)	
		% of PEL	PPM	% of PEL	PPM	% of PEL	PPM
Chloromethane	50	0.004	0.002	0.000	0.000	0.003	0.001
Bromomethane	5	0.000	0.000	0.000	0.000	0.000	0.000
Vinyl chloride	1	0.000	0.000	0.000	0.000	0.000	0.000
Chloroethane	1000	0.000	0.000	0.000	0.000	0.000	0.000
Dichloromethane	50	0.001	0.001	0.000	0.000	0.000	0.000
Acetone	750	0.000	0.001	0.000	0.000	0.001	0.005
Carbon disulfide	10	0.001	0.000	0.000	0.000	0.000	0.000
1,1-Dichloroethene	5	0.000	0.000	0.000	0.000	0.000	0.000
1,1-Dichloroethane	100	0.000	0.000	0.000	0.000	0.000	0.000
trans-1,2-Dichloroethene	200	0.001	0.001	0.000	0.000	0.001	0.001
Chloroform	10	0.001	0.000	0.000	0.000	0.008	0.001
1,2-Dichloroethane	10	0.000	0.000	0.000	0.000	0.001	0.000
2-Butanone	200	0.000	0.000	0.000	0.000	0.001	0.001
1,1,1-Trichloroethane	350	0.000	0.000	0.000	0.000	0.000	0.000
Carbon Tetrachloride	5	0.000	0.000	0.000	0.000	0.003	0.000
Vinyl acetate	10	0.000	0.000	0.000	0.000	0.001	0.000
Bromodichloromethane			0.000		0.000		0.000
1,2-Dichloropropane	75	0.000	0.000	0.000	0.000	0.000	0.000
cis-1,3-Dichloropropene	1	0.000	0.000	0.000	0.000	0.000	0.000
Trichloroethylene	50	0.000	0.000	0.000	0.000	0.000	0.000
Dibromochloromethane			0.000		0.000		0.000
1,1,2-Trichloroethane	10	0.000	0.000	0.000	0.000	0.000	0.000
Benzene	1	0.012	0.000	0.000	0.000	0.057	0.001
trans-1,3-Dichloropropene	1	0.000	0.000	0.000	0.000	0.000	0.000
2-Chloroethylvinyl ether			0.000		0.000		0.000
Bromoform	0.5	0.000	0.000	0.000	0.000	0.000	0.000
4-Methyl-2-pentanone	50	0.000	0.000	0.000	0.000	0.000	0.000
2-Hexanone	5	0.000	0.000	0.000	0.000	0.000	0.000
Tetrachloroethylene	50	0.000	0.000	0.000	0.000	0.000	0.000
1,1,2,2-Tetrachloroethane	1	0.000	0.000	0.000	0.000	0.000	0.000
Toluene	100	0.000	0.000	0.000	0.000	0.000	0.000
Chlorobenzene	10	0.000	0.000	0.000	0.000	0.000	0.000
Ethylbenzene	100	0.000	0.000	0.000	0.000	0.000	0.000
Styrene	50	0.000	0.000	0.000	0.000	0.000	0.000
Xylene (total)	100	0.000	0.000	0.000	0.000	0.000	0.000
Hexane			0.003		0.000		0.053

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TABLE 8-2

Rainfall Data for May, 1995

Due to a malfunction of the automated rain gauge, a rainfall data table is not available. Rainfall was measured via a manual rain gauge. Total rainfall for the month of May, 1995, was approximately 12 inches. Most of this rainfall occurred in the last few days of the month.

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ATTACHMENT 8A

Repository Status Report: May, 1995

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REPOSITORY STATUS REPORT: May, 1995

At the Rice University Library...

1. Remedial Investigation Report April, 1985
2. Remedial Investigation Report Appendices, Volume II, April, 1985
3. Remedial Investigation Report June, 1986 (Updated from April, 1985)
4. Remedial Investigation Report Appendices, Volume I, February, 1986 (Revised June, 86)
5. Remedial Investigation Report Appendices, Volume II, February, 1986 (Revised June, 1986)
- 6.
7. Remedial Investigation Report Appendices, Volume III, February, 1986
8. 1986 Field Investigation and Supplemental Remedial Investigation Report Volume I, December, 1986
- 9.
10. 1986 Field Investigation and Supplemental Remedial Investigation Report French Limited Site Volume II, Appendices December, 1986
11. 1986 Field Investigation Hydrology Report, December 19, 1986
- 12.
13. Endangerment Assessment Report February, 1987
14. Endangerment Assessment Report April 1987 (Updated from February, 1987)
15. Feasibility Study Report, March 1987
16. In Situ Biodegradation Demonstration Report Volume I Executive Summary, October 30, 1987 Revised 11-11-87
17. In Situ Biodegradation Demonstration Supplemental Report French Limited Site Volume I, November 30, 1987
18. In Situ Biodegradation Demonstration Report Volume II, October 30, 1987 (Revised February 1, 1988 at Site only)
19. In Situ Biodegradation Demonstration Supplemental Report French Limited Site Volume II, November 30, 1987 + Appendices

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20. In Situ Biodegradation Demonstration Report Volume III Appendices, October 30, 1987
21. In Situ Biodegradation Demonstration Report Volume III, Appendices, Supplemental Report, November 30, 1987
22. In Situ Biodegradation Demonstration Report French Limited Site, Volume IV October 30, 1987 + Appendices
23. In Situ Biodegradation Demonstration Supplemental Report French Limited Site, Volume IV November 30, 1987 + Appendices
24. In Situ Biodegradation Demonstration Report French Limited Site Volume V, October 30, 1987
25. In Situ Biodegradation Demonstration Report French Limited Site Volume V Appendices, November 30, 1987 - Supplemental Report
26. In Situ Biodegradation Demonstration Report French Limited Site Volume VI Appendices, October 30, 1987
27. In Situ Biodegradation Demonstration Report French Limited Site Volume VII Appendices, October 30, 1987
28. In Situ Biodegradation Demonstration Report French Limited Site Volume VIII Appendices, October 30, 1987
29. In Situ Biodegradation Demonstration Report French Limited Site Volume IX Appendices, October 30, 1987
30. In Situ Biodegradation Demonstration Report French Limited Site Volume X Appendices, October 30, 1987
31. In Situ Biodegradation Demonstration Report French Limited Site Volume XI Appendices, October 30, 1987
32. In Situ Biodegradation Demonstration Report French Limited Site Volume XII Appendices, October 30, 1987
33. In Situ Biodegradation Demonstration Report French Limited Site Volume XIII Appendices, October 30, 1987
34. In Situ Biodegradation Demonstration Report French Limited Site Volume XIV Appendices, October 30, 1987

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35. In Situ Biodegradation Demonstration Report French Limited Site Volume XV Appendices, October 30, 1987
36. In Situ Biodegradation Demonstration Report French Limited Site Volume XVI Appendices, October 30, 1987
37. In Situ Biodegradation Demonstration Report French Limited Site Volume XVII Appendices, October 30, 1987
38. In Situ Biodegradation Demonstration Report French Limited Site Volume XVIII Appendices, October 30, 1987
39. Proposed In Situ Biodegradation Demonstration French Limited Site Phase III, April, 1987
40. In Situ Bioremediation Demonstration French Limited April, 1987 Monthly Report, Equipment Evaluation Phase IV
41. In Situ Bioremediation Demonstration French Limited May, 1987 Monthly Report, Equipment Evaluation Phase IV
42. In Situ Bioremediation Demonstration French Limited June, 1987 Monthly Report, Equipment Evaluation Phase IV
43. In Situ Bioremediation Demonstration French Limited July, 1987 Monthly Report, Equipment Evaluation Phase IV
44. In Situ Bioremediation Demonstration French Limited August, 1987 Monthly Report, Equipment Evaluation Phase IV
45. In Situ Bioremediation Demonstration French Limited November, 1987 Monthly Report, Equipment Evaluation Phase IV
46. In Situ Bioremediation Demonstration French Limited December, 1987 Monthly Report, Equipment Evaluation Phase IV
47. In Situ Bioremediation Demonstration French Limited January, 1988 Monthly Report, Equipment Evaluation Phase IV
48. In Situ Bioremediation Demonstration French Limited February, 1988 Monthly Report, Equipment Evaluation Phase IV
49. In Situ Bioremediation Demonstration French Limited March, 1988 Monthly Report, Equipment Evaluation Phase IV

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50. In Situ Bioremediation Demonstration French Limited April, 1988 Monthly Report, Equipment Evaluation Phase IV
 51. In Situ Biodegradation Demonstration French Limited May/June 1988 Monthly Report, Equipment Evaluation Phase IV
 52. In Situ Bioremediation Demonstration French Limited July, 1988 Monthly Report, Equipment Evaluation Phase IV
 53. In Situ Bioremediation Demonstration French Limited August, 1988 Monthly Report, Equipment Evaluation Phase IV
 54. In Situ Bioremediation Demonstration French Limited September, 1988 Monthly Report, Equipment Evaluation Phase IV
 55. Supplemental Biodegradation Equipment Evaluation French Limited Site - Phase IV, September 26, 1988
 56. In Situ Biodegradation Demonstration Phase III Quality Assurance Project Plan for French Limited Site, March, 1987
 57. Addendum to Quality Assurance Project Plan for the French Limited Site In Situ Biodegradation Demonstration Phase III, February 16, 1990
 58. Site Safety and Health Plan French Limited Site - Phase III, April 1987 (Revision 2)
 59. Remedial Action Plan Volume I - April, 1990
 60. Remedial Action Plan Volume I - September, 1990 (Updated from April, 1990)
 61. Remedial Action Plan Volume II Quality Assurance April, 1990
 62. Remedial Action Plan Volume II Quality Assurance September, 1990 (Updated from April 1990) Revised June 3, 1991
 63. Remedial Action Plan Volume II Quality Assurance June, 1990 Appendix A - Quality Assurance Sampling Procedures and Appendix B - Analytical Methods - B.1 - B.53, September 22, 1989 Revised September 28, 1990
 64. Remedial Action Plan Volume III - Health and Safety, July 20, 1990

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- 65. Remedial Action Plan Volume IV - Spill and Volatile Organic Release Contingency Plan (April 6, 1990)
 - 66. Remedial Action Plan Volume V - Shallow Aquifer and Subsoil Remediation Process Design, May, 1990
Page v.i.3 Missing
 - 67. Remedial Action Plan Volume V - Shallow Aquifer and Subsoil Remediation Process Design, July 20, 1990, (Updated from May, 1990)
 - 68. 1988 Equipment Evaluation Phase IV Report French Limited Site: Volume I, February 1, 1990
 - 69. 1988 Equipment Evaluation Phase IV Report French Limited Site: Volume II, February 1, 1990
 - 70. 1988 Slough Investigation Report French Limited Site, October 1988
 - 71. Ambient Air Impact Risk Assessment Report, May 5, 1989
 - 72. Workplan for the Shallow Aquifer Pumping Tests for the French Limited Site, July 22, 1988
Page 80 Missing
 - 73. French Limited Site Hurricane Gilbert Preparation Report, October, 1988
 - 74. Potable Water Well Installation Report French Limited Site, December 7, 1988
 - 75. Bioresidue Fixation Alternatives Evaluation Report French Limited Site March 20, 1989
 - 76. Hydrogeologic Characterization Report, March 1989
 - 77. Hydrogeologic Characterization Report - Appendices, March 1989
 - 78. San Jacinto River May 19, 1989 Flood Event Report, June 1989
 - 79. Post San Jacinto River May 1989 Flood Event Soils and Water Analysis Program - Volume I, August 16, 1989
 - 80. Post San Jacinto River 1989 Flood Event Soil and Water Analysis Program Volume II Appendix A

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81. Post San Jacinto River 1989 Flood Event Soil and Water Analysis Program Volume III Appendix A, August 16, 1989
82. Riverdale Lake Area Remediation Program August 15, 1989
83. Flood and Migration Control Wall Design Report, August 16, 1989
84. Flood and Migration Control Wall Design Report Appendix C Access Way Design, September, 1989
85. North Pit Remediation Report French Limited Site, November 6, 1989
86. Installation Report for Flood and Migration Control Wall, January 8, 1990
87. Installation Report for Flood and Migration Control Wall Appendix A - ENSR Site Logs
88. Installation Report for Flood and Migration Control Wall Appendix B - Inspection Reports
89. Installation Report for Flood and Migration Control Wall Appendix C - Pile Driving Inspection Report January 8, 1990
90. Flood Wall Gate Test Report French Limited Site, February 1990
91. French Limited Remediation Design Report - Executive Summary Bioremediation/Shallow Aquifer, July, 1991
92. Shallow Aquifer and Subsoil Remediation Facilities Design Report Volume I of III - Summary Report and Appendices A-H, July 1991
93. Shallow Aquifer and Subsoil Remediation Facilities Design Report Volume II of III - Appendices I-M, June 1991
94. Shallow Aquifer and Subsoil Remediation Facilities Design Report Volume III of III - Appendices N-P, June 1991
95. Bioremediation Facilities Design Report Volume II of IV Appendices, Reports and Calculations (March 20, 1991)
96. Bioremediation Facilities Design Report Volume III of IV Appendix E - Design Specifications (March 20, 1991)

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97. Bioremediation Facilities Design Report Volume IV of IV - Air Monitoring, March 20, 1991
98. Public Health Assessment for French Limited March 30, 1993 from U.S. Department of Health and Human Services
99. CH2M Hill, Cell E Verification Remediation Report, May 1993, Volume 1, Report, Appendices A-E
100. CH2M Hill, Cell E Verification Remediation Report, May 1993, Volume 2, Appendix F
101. CH2M Hill, Cell E Verification Remediation Report, May 1993, Volume 3, Appendix F continued
102. CH2M Hill, Cell E Verification Remediation Report, May 1993, Volume 4, Appendix G
103. CH2M Hill, Cell E Verification Remediation Report, May 1993, Volume 5, Appendix H
104. CH2M Hill, Cell E Verification Remediation Report, May 1993, Volume 6, Appendix H continued
105. Record of Public Meeting Regarding Remedial Investigation and Feasibility Study (5-21-87)
106. Summary of Remedial Alternative Selection 1988
107. Declaration for the Record of Decision 1988
108. Record of Public Meeting Regarding Remedial Investigation and Feasibility Study (2-11-88) (Updated from June 21, 1987)
109. Consent Decree between the Federal Government and the FLTG
110. French Limited Superfund Site Community Relations Revised Plan August, 1989 - Jacob's Engineering
111. Results of the French Limited Task Group Survey (Goldman and Company) April, 1987
112. Goldman Public Relations Clipping Report

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113. BioGEE International, Inc., Project Report Biotreatability Study Using Isolated Indigenous Organisms, April, 1994
114. Field Evaluation of Biodegradation at the French Limited Site (Phase II) Volume I
115. Laboratory Evaluation of Biodegradation at the French Limited Site
116. French Limited Site Focused Feasibility Study (May 1987)
117. Annual Groundwater Monitoring Report, December 1993, Report and Appendices A-B
118. Annual Groundwater Monitoring Report, December 1993, Appendices C-H
119. DNAPL Study Remedial Alternative Selection and Feasibility Study Report, November 1994
120. Cell E and Cell D/F Remediation Verification Report
121. French Limited Wetlands Mitigation, Final Site Restoration Plan
122. French Limited Wetlands Mitigation, Site Selection Report
123. French Limited Wetlands Mitigation, 404 and 401 Permit Application, U.S. Army Corps of Engineers, Galveston, TX
124. Quality Assurance Report, February 15, 1993, Report No. QA93003
125. Quality Assurance Report, January 20, 1994, Report No. QA94001
126. Environmental Protection Agency, Region VI, Hazardous Waste Management Division, First Five Year Review (Type Ia), CERCLIS TXD-980514814, December 1994
127. ARCS, French Limited Site 1993, Annual Groundwater Sampling and Comparison Report, CH2M Hill, January, 1995
128. Annual Groundwater Monitoring Report, December, 1994, Report and Appendices A-G
129. Superfund Preliminary Site Closeout Report CERCLIS TXD-980514814, September, 1994

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- 130. Monthly Progress Report, January 1992
 - 131. Monthly Progress Report, January, 1992 Appendices A-C
 - 132. Monthly Progress Report, January, 1992 Appendices E, F
 - 133. Monthly Progress Report, January, 1992 Appendices G
 - 134. Monthly Progress Report, February, 1992
 - 135. Monthly Progress Report, February, 1992 Appendices A-B
 - 136. Monthly Progress Report, February, 1992 Appendices C 1
 - 137. Monthly Progress Report, February, 1992 Appendices C 2
 - 138. Monthly Progress Report, February, 1992 Appendices D-E
 - 139. Monthly Progress Report, March, 1992
 - 140. Monthly Progress Report, March, 1992, Appendix A
 - 141. Monthly Progress Report, April, 1992
 - 142. Monthly Progress Report, April, 1992, Appendices A-B
 - 143. Monthly Progress Report, May, 1992
 - 144. Monthly Progress Report, May, 1992, Appendices A-B
 - 145. Monthly Progress Report, June, 1992
 - 146. Monthly Progress Report, June, 1992, Appendices A-B
 - 147. Monthly Progress Report, July 1992
 - 148. Monthly Progress Report, July 1992, Appendices A-B
 - 149. Monthly Progress Report, July 1992, Appendices B1-B22 Vol. 1 of 3
 - 150. Monthly Progress Report, July 1992, Appendices B1-B22 Vol. 2 of 3
 - 151. Monthly Progress Report, July 1992, Appendices B1-B22 Vol. 3 of 3

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152. Monthly Progress Report, August, 1992
153. Monthly Progress Report, August, 1992, Appendices A-B
154. Monthly Progress Report, September, 1992
155. Monthly Progress Report, September, 1992, Appendices A-B
156. Monthly Progress Report, October, 1992
157. Monthly Progress Report, October, 1992, Appendices A-B
158. Monthly Progress Report, November, 1992
159. Monthly Progress Report, November, 1992 Appendices A-B
160. Monthly Progress Report, December, 1992
161. Monthly Progress Report, December, 1992 Appendices A, B
162. Monthly Progress Report, January, 1993
163. Monthly Progress Report, February, 1993
164. Monthly Progress Report, March, 1993
165. Monthly Progress Report, April, 1993
166. Monthly Progress Report, May, 1993
167. Monthly Progress Report, June, 1993
168. Monthly Progress Report, July, 1993
169. Monthly Progress Report, August, 1993
170. Monthly Progress Report, September, 1993
171. Monthly Progress Report, October, 1993
172. Monthly Progress Report, November, 1993
173. Monthly Progress Report, December, 1993

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174. Monthly Progress Report, January, 1994
175. Monthly Progress Report, February, 1994
176. Monthly Progress Report, March, 1994
177. Monthly Progress Report, April, 1994
178. Monthly Progress Report, May, 1994
179. Monthly Progress Report, June, 1994
180. Monthly Progress Report, July, 1994
181. Monthly Progress Report, August, 1994
182. Monthly Progress Report, September, 1994
183. Monthly Progress Report, October, 1994
184. Monthly Progress Report, November, 1994
185. Monthly Progress Report, December, 1994
186. Monthly Progress Report, January, 1995
187. Monthly Progress Report, February, 1995
188. Monthly Progress Report, March, 1995
189. Monthly Progress Report, April, 1995

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At the Crosby library...

1. Remedial Investigation Report - June, 1986
2. Remedial Investigation Appendices Volume I June, 1986 Revised from Feb. 1986
3. Remedial Investigation Appendices Volume II June, 1986 Revised from Feb. 1986
4. Remedial Investigation Appendices Volume III February, 1986
 - Pages 1 and 2 of 10 Res. Engr Tab Missing
 - Analytical Report Worksheet 7-8-9-10 Missing
 - Pages 1 and 2 of 6 Missing
 - Tab 9 H 1-8 Missing, H 11-19 Missing, Page 1 of 10 Missing
 - Page 3 Worksheet Missing
 - Tab 10 H 1-3 Missing, Page 3-6 of 6 Missing, Page 1-6 Missing
 - Tab 12 Page 2-10 of 10 Missing
5. Field Investigation and Supplemental Remedial Investigation Report Volume I, December, 1986
6. Field Investigation and Supplemental Remedial Investigation Report Volume II, Appendices, December 1986
7. Field Investigation Hydrology Report, December 19, 1986
8. Feasibility Study Report, March 1987
9. Feasibility Study Report, March 1987
10. French Limited Site Focused Feasibility Study, May 1987
11. Endangerment Assessment Report February 1987
12. Endangerment Assessment Report April 1987
13. Endangerment Assessment Report April 1987
14. In Situ Biodegradation Demonstration Report Volume I Executive Summary October, 1987 (Revised 12-15-87)
15. In Situ Biodegradation Demonstration Report Volume II October 30, 1987

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16. In Situ Biodegradation Demonstration Supplemental Report French Limited Site Volume I, November 30, 1987
Missing Supplements to 5-6 and 7 to 10
17. In Situ Biodegradation Demonstration Supplemental Report French Limited Site Volume II, November 30, 1987 + Appendices
18. In Situ Biodegradation Demonstration Supplemental Report French Limited Site Volume III, November 30, 1987 + Appendices
19. In Situ Biodegradation Demonstration Supplemental Report French Limited Site Volume IV, November 30, 1987 -Appendices
20. In Situ Biodegradation Demonstration Supplemental Report French Limited Site Volume V - Appendices, November 30, 1987
21. Results of the French Limited Task Group Survey (Goldman and Company) April 1987
22. Goldman Public Relations Clipping Report
23. Consent Decree between the Federal Government and the FLTG
24. Consent Decree between the Federal Government and the FLTG
25. Laboratory Evaluation of Biodegradation at the French Limited Site, December 1986.
26. Field Evaluation of Biodegradation at the French Limited Site (Phase II) Volume I, March, 1987
27. Bioremediation Facilities Design Report Volume II of IV Appendices, Reports and Calculations March 20, 1991
28. Bioremediation Facilities Design Report Volume III of IV Appendix E - Design Specifications March 20, 1991
29. Bioremediation Facilities Design Report Volume IV of IV Air Monitoring, March 20, 1991
30. Remedial Action Plan Volume I, September 28, 1990
31. Remedial Action Plan Volume II - Quality Assurance, Revised June 3, 1991

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32. Remedial Action Plan Volume II - Appendix A - Quality Assurance Sampling Procedures and Appendix B - Analytical Methods - B.1 - B.53, September 28, 1990
33. Remedial Action Plan Volume III - Health and Safety, July 20, 1990
34. Remedial Action Plan Volume V - Shallow Aquifer and Subsoil Remediation Process Design, July 20, 1990
35. Remedial Action Plan Volume V - Shallow Aquifer and Subsoil Remediation Process Design, July 20, 1990
36. Hydrogeologic Characterization Report, March 1989
37. Hydrogeologic Characterization Report Appendices, March 1989
38. Supplemental Biodegradation Equipment Evaluation French Limited Site - Phase IV, September 26, 1988
39. Equipment Evaluation Phase IV Report French Limited Site:
Volume I, February 1, 1990
40. Equipment Evaluation Phase IV Report French Limited Site:
Volume II, February 1, 1990
41. Site Safety and Health Plan French Limited Site - Phase III, April 1987
(Revision 2)
42. San Jacinto River May 19, 1989 Flood Event Report, June 1989
43. Post San Jacinto River May 1989 Flood Event Soils and Water Analysis Program
Volume I, August 16, 1989
44. Post San Jacinto River 1989 Flood Event Soil and Water Analysis Program
Volume II, Appendix A
45. Post San Jacinto River 1989 Flood Event Soil and Water Analysis Program
Volume III, Appendix A, August 16, 1989
46. Slough Investigation Report French Limited Site, October 1988
47. Flood and Migration Control Wall Design Report, August 16, 1989

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48. Flood and Migration Control Wall Design Report (Flood is spelled incorrectly on Volume Cover) + Appendix C - Access way Design September 1989
49. Installation Report for Flood and Migration Control Wall January 8, 1990
50. Installation Report for Flood and Migration Control Wall
Appendix A - ENSR Site Logs
51. Installation Report for Flood and Migration Control Wall
Appendix B - Inspection Reports
52. Installation Report for Flood and Migration Control Wall
Appendix C - Pile Driving Inspection Report January 8, 1990
53. Flood Wall Gate Test Report French Limited Site, February 1990
54. North Pit Remediation Report French Limited Site, November 6, 1989
55. Workplan for the Shallow Aquifer Pumping Tests for the French Limited Site, July 22, 1988
(Additional Title - Pumping Test Program for Shallow Alluvial Aquifer Zone)
56. French Limited Site Hurricane Gilbert Preparation Report October, 1988
57. Riverdale Lake Area Remediation Program, August 15, 1989
58. Addendum to Quality Assurance Project Plan for the French Limited Site In Situ Biodegradation Demonstration Phase III, February 16, 1990
59. Potable Water Well Installation Report French Limited Site, December 7, 1988
60. Bioresidue Fixation Alternatives Evaluation Report French Limited Site
March 20, 1989
61. Ambient Air Impact Risk Assessment Report, May 5, 1989
62. Shallow Aquifer and Subsoil Remediation Facilities Design Report Volume I of III - Summary Report and Appendices A-H, July 1991
63. Shallow Aquifer and Subsoil Remediation Facilities Design Report Volume II of III - Appendices I-M, June 1991
64. Shallow Aquifer and Subsoil Remediation Facilities Design Report Volume III of III - Appendices N-P, June 1991

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French Ltd. Project
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65. French Ltd. Remediation Design Report Executive Summary
Bioremediation Shallow Aquifer July 1991
66. BioGEE International, Inc., Project Report Biotreatability Study Using Isolated Indigenous Organisms, April 15, 1994
67. Black EPA Binder
68. CH2M Hill, Cell E Verification Remediation Report, May 1993, Volume 1, Report, Appendices A-E
69. CH2M Hill, Cell E Verification Remediation Report, May 1993, Volume 2, Appendix F
70. CH2M Hill, Cell E Verification Remediation Report, May 1993, Volume 3 Appendix F continued
71. CH2M Hill, Cell E Verification Remediation Report, May 1993, Volume 4, Appendix G
72. CH2M Hill, Cell E Verification Remediation Report, May 1993, Volume 5, Appendix H
73. CH2M Hill, Cell E Verification Remediation Report, May 1993, Volume 6, Appendix H continued
74. Equipment Evaluation Phase IV Report November, 1987 Monthly Report
75. Equipment Evaluation Phase IV Report December, 1987 Monthly Report
76. Microfiche Field Reports 1988 -small box
77. Annual Groundwater Monitoring Report, December 1993, Report and Appendices A-B
78. Annual Groundwater Monitoring Report, December 1993, Appendices C-H
79. DNAPL Study Remedial Alternative Selection and Feasibility Study Report, November 1994
80. Cell E and Cell D/F Remediation Verification Report
81. French Limited Wetlands Mitigation, Final Site Restoration Plan

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82. French Limited Wetlands Mitigation, Site Selection Report
83. French Limited Wetlands Mitigation, 404 and 401 Permit Application, U.S. Army Corps of Engineers, Galveston, TX
84. Quality Assurance Report, February 15, 1993, Report No. QA93003
85. Quality Assurance Report, January 20, 1994, Report No. QA94001
86. Environmental Protection Agency, Region VI, Hazardous Waste Management Division, First Five Year Review (Type Ia), CERCLIS TXD-980514814, December 1994
87. ARCS, French Limited Site 1993, Annual Groundwater Sampling and Comparison Report, CH2M Hill, January, 1995
88. Annual Groundwater Monitoring Report, December, 1994, Report and Appendices A-G
89. Superfund Preliminary Site Closeout Report CERCLIS TXD-090514814, September, 1994
90. Monthly Progress Report, January, 1992
91. Monthly Progress Report, January, 1992, Appendices A-C
92. Monthly Progress Report, January, 1992, Appendices E-F
93. Monthly Progress Report, January, 1992, Appendix G
94. Monthly Progress Report, February, 1992
95. Monthly Progress Report, February, 1992, Appendices A-B
96. Monthly Progress Report, February, 1992, Appendices C 1
97. Monthly Progress Report, February, 1992 Appendices C 2
98. Monthly Progress Report, February, 1992 , Appendices D-E
99. Monthly Progress Report, March, 1992
100. Monthly Progress Report, March, 1992, Appendix A

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- 101. Monthly Progress Report, April, 1992
 - 102. Monthly Progress Report, April, 1992, Appendices A-B
 - 103. Monthly Progress Report, May, 1992
 - 104. Monthly Progress Report, May, 1992, Appendices A-B
 - 105. Monthly Progress Report, June, 1992
 - 106. Monthly Progress Report, June, 1992, Appendices A-B
 - 107. Monthly Progress Report, July, 1992
 - 108. Monthly Progress Report, July, 1992, Appendices A-B
 - 109. Monthly Progress Report, July, 1992, Appendices B1-B22 Vol. 1 of 3
 - 110. Monthly Progress Report, July, 1992, Appendices B1-B22 Vol. 2 of 3
 - 111. Monthly Progress Report, July, 1992, Appendices B1-B22 Vol. 3 of 3
 - 112. Monthly Progress Report, August, 1992
 - 113. Monthly Progress Report, August, 1992, Appendices A-B
 - 114. Monthly Progress Report, September, 1992
 - 115. Monthly Progress Report, September, 1992, Appendices A-B
 - 116. Monthly Progress Report, October, 1992
 - 117. Monthly Progress Report, October, 1992, Appendices A-B
 - 118. Monthly Progress Report, November, 1992
 - 119. Monthly Progress Report, November, 1992, Appendices A-B
 - 120. Monthly Progress Report, December, 1992
 - 121. Monthly Progress Report, December, 1992, Appendices A-B
 - 122. Monthly Progress Report, January, 1993

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- 123. Monthly Progress Report, February, 1993
 - 124. Monthly Progress Report, March, 1993
 - 125. Monthly Progress Report, April, 1993
 - 126. Monthly Progress Report, May, 1993
 - 127. Monthly Progress Report, June, 1993
 - 128. Monthly Progress Report, July, 1993
 - 129. Monthly Progress Report, August, 1993
 - 130. Monthly Progress Report, September, 1993
 - 131. Monthly Progress Report, October, 1993
 - 132. Monthly Progress Report, November, 1993
 - 133. Monthly Progress Report, December, 1993
 - 134. Monthly Progress Report, January, 1994
 - 135. Monthly Progress Report, February, 1994
 - 136. Monthly Progress Report, March, 1994
 - 137. Monthly Progress Report, April, 1994
 - 138. Monthly Progress Report, May, 1994
 - 139. Monthly Progress Report, June, 1994
 - 140. Monthly Progress Report, July, 1994
 - 141. Monthly Progress Report, August, 1994
 - 142. Monthly Progress Report, September, 1994
 - 143. Monthly Progress Report, October, 1994
 - 144. Monthly Progress Report, November, 1994

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- 145. Monthly Progress Report, December, 1994
 - 146. Monthly Progress Report, January, 1995
 - 147. Monthly Progress Report, February, 1995
 - 148. Monthly Progress Report, March, 1995
 - 149. Monthly Progress Report, April, 1995

12 Large Brown Folders:

- 1. Administrative Record Index - 2 folders
 - Administrative Record 09-26-79 thru 05-29-83
 - Administrative Record 06-03-83 thru 11-28-83
 - Administrative Record 02-28-84
 - Administrative Record 03-09-84
 - Technical Comments on Remediation Investigation Report 2-84
 - Supplemental Investigation - Resource Engr. 1-84
 - Administrative Record 3-9-84
- 2. Administrative Record 08-31-84
 - Administrative Record 10-29-84 thru 01-22-85
 - French Ltd. Technical and Regulatory Concepts for In-Place Closure, 09-84
 - Supplementary Investigation, May 1984
 - French Ltd. Field Activities Work Plan, February 1985
 - Supplementary Investigation Attachments, May 1985
- 3. Administrative Record 02-04-85
 - Remedial Investigation, Vol. I Report, April 1985
 - Remedial Investigation, Vol. II Appendices, April 1985
- 4. Administrative Record 04-08-85 thru 11-26-85
 - Administrative Record 02-14-86 thru 04-04-86
 - Technical Report for Resource Engineering, 12-03-85
 - Appendix QA Program for French Ltd., 12-18-85
 - 1985 Field Investigation Report Appendices, January, 1986
 - 1985 Field Investigation Report , January, 1986
- 5. Administrative Record 04-01-86
 - Remedial Investigation Report Appendices, Vol. II, April, 1986
- 6. Administrative Record 4-1-86

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7. Administrative Record 05-08-86 thru 05-12-86
 Administrative Record 06-01-86
 Administrative Record 01-05-87
 Remedial Investigation Report, June 1986
 Laboratory Evaluation of Biodegradation, 12-86
 1986 Field Investigation Hydrology Report, 12-86
 Endangerment Assessment Report, 2-87
8. Feasibility Study, March 1987
9. Administrative Report 03-11-87 thru 03-25-87
 Administrative Report 4-1-87
 Administrative Report 4-7-87
 In Situ Biodegradation Demonstration Phase III QA Project Plan 3-87
 Endangerment Assessment Report, 4-87
 Proposed In Situ Biodegradation Demonstration French Limited Site Phase III 4-87
10. Administrative Report 4-15-87 thru 5-1-87
 Administrative Report 5-21-87 thru 7-2-87
 French Limited Focused Feasibility Study, ERT 5-87
 Revised Field Evaluation of Biodegradation at French Site Phase II Vol. I
 -Revised 7-10-87
11. Administrative Report 7-20-87 - 11-23-87
 Administrative Report Undated Documents 000122-000134
 In Situ Biodegradation Demonstration Report Vol. I Executive Summary 10-87
 French Limited Site Work Plan Vol. I Project Activities and Sample Plan
12. Texas Air Control Board Regulations I thru IX
 Standard Exemption List
 Application for Permit

During the month of May, the status of both libraries have been reviewed and the above information found to be accurate.



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MONTHLY PROGRESS REPORT
Wetlands Restoration

French Ltd. Project
FLTG, Incorporated

9.0 WETLANDS RESTORATION

9.1 Summary of Activities and Progress

Conducted safety meetings at the start of each work shift; inspected all equipment for safety compliance each shift; used daily lottery ticket safety awareness program.

Updated site work plan based on field progress.

Some dewatering was required after each significant rainfall; generally dry weather allowed good excavation progress.

Completed flow channel excavation.

Completed final grading and applied topsoil in about 90% of the area.

Bridge construction is complete.

Decreased site security coverage since there has been minimal public contact.

Completed the site re-vegetation plan and secured the necessary plants from a nearby state park.

Conducted four site tours for interested parties.

Continued work on a video of the project; interviewed key players on the project.

Reviewed the project status, progress, and issues with the agency review committee; the agencies are satisfied with site progress.

Defined the nature of the affected soil; reviewed the affected soil issue with the City of Baytown; developed a draft suggested response plan for the city to submit to TNRCC; sampled and secured the affected soil that has already been excavated.

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9.2 Problem Areas and Solutions

<u>Problem</u>	<u>Solution</u>
Safety awareness	Daily safety meeting; lottery ticket program; frequent equipment inspections.
Excavation in wet, soft areas.	Revise work schedule to allow drainage; pump water on "off" days.
Affected soil in excavation area.	Isolate area; sample and analyze affected soils; relocate tidal channel; review response options with City of Baytown.

9.3 Problems Resolved

<u>Problem</u>	<u>Solution</u>
Source of vegetation.	Reached agreement to secure plants from a nearby state park.

9.4 Deliverables Submitted

April, 1995, Monthly Report.

9.5 Upcoming Events and Activities

Daily safety program.

Continue civil work on site.

Replace topsoil and vegetate.

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Implement response plan for affected soil.

Continue re-vegetation.

Develop forecast of maintenance requirements.

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French Ltd. Project

**FLTG, Inc.
Crosby, Texas**